This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

+ *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.

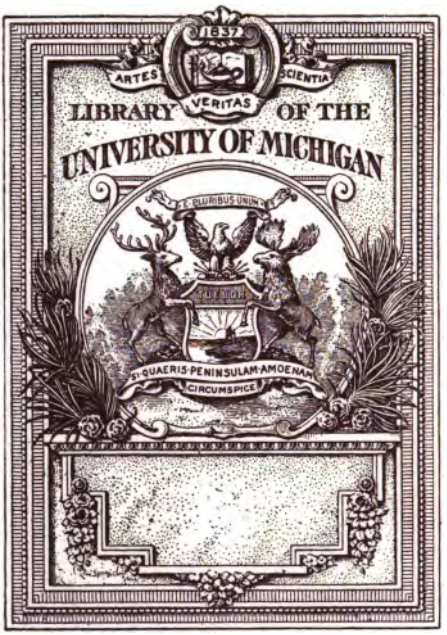
+ *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.

+ *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.

+ *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

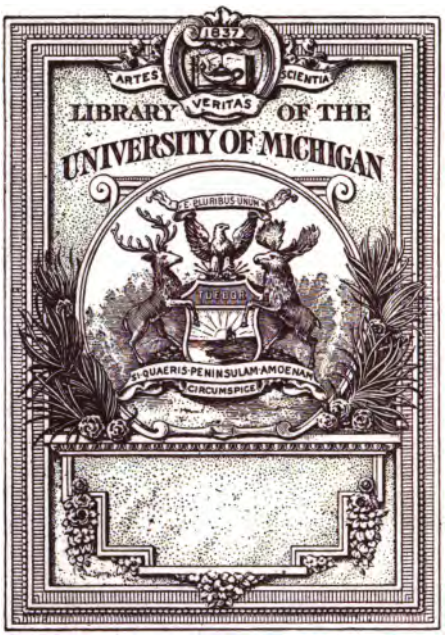
About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at `http://books.google.com/`



THE GIFT OF
Princeton Univ.

LD
4587.



THE GIFT OF
Princeton Univ.

LD
4587.

CATALOGUE

OF

PRINCETON UNIVERSITY

ONE HUNDRED AND SIXTY-FIRST YEAR

1907-1908

PRINCETON, NEW JERSEY
PUBLISHED BY THE UNIVERSITY
1907

Press of
THE JOHN C. WINSTON COMPANY
1006-1016 Arch Street
Philadelphia

CONTENTS

	PAGE
OFFICE HOURS,	8
CALENDAR,	10
FACULTY MEETINGS,	12

PART I.—OFFICERS OF THE UNIVERSITY

Trustees of the University	17
Alumni Trustees,	18
Standing Committees of the Trustees,	19
Faculty and Instructors,	20
Stafford Little Lecturer on Public Affairs,	36
University Officers,	37
Standing Committees of the Faculty,	40

PART II.—HISTORY AND GOVERNMENT OF THE UNIVERSITY

Founding of the Log College,	45
Forces of the Log College unite with the First Trustees in founding the College of New Jersey,	46
The Charters of 1746 and 1748,	46, 48
Foundation of the John C. Green School of Science,	64
Title of Princeton University assumed,	65

Princeton Univ. 1-24-08

173276

PAGE

Plan of Alumni Representation in the Board of Trustees, - - - - - - - - - - - 65
Form of Bequest, - - - - - - - - - 65

PART III.—TERMS OF ADMISSION

Entrance Fee, - - - - - - - - - - 69
Entrance Examinations, - - - - - - 70
Preliminary Examinations, - - - - - - 72
Freshman Entrance Requirements, - - - 72
Freshman Entrance Subjects, - - - - - - 76
Admission to Special Courses, - - - - 86
Admission to Advanced Standing, - - - 86

PART IV.—SYSTEM OF UNDERGRADUATE STUDY

The Freshman Year, - - - - - - - - 92
The Sophomore Year, - - - - - - - 92
The Junior Year, - - - - - - - - - 94
The Senior Year, - - - - - - - - - 97
Tables Showing Departments in Detail, - - 100
The Department of Civil Engineering, - - 108

PART V.—DEPARTMENTS OF THE UNIVERSITY

THE ACADEMIC DEPARTMENT

Faculty, - - - - - - - - - - - 117
Courses of Instruction, - - - - - - - 121

PAGE

THE JOHN C. GREEN SCHOOL OF SCIENCE
Faculty, - - - - - - - - - - - - 155
Courses of Instruction, - - - - - - - 157
Department of Civil Engineering, - - - - 187
Department of Electrical Engineering, - - 197
UNDERGRADUATE SCHEDULES, - - - - - - 200
THE GRADUATE SCHOOL
Courses of Instruction, - - - - - - - 214
Degrees, - - - - - - - - - - - - 235
Fellowships, - - - - - - - - - - 241

PART VI.—EXAMINATIONS, STANDING, AND GRADUATION; HONORS; GENERAL ORDERS; AND PUBLIC LECTURES

Examinations, Standing, and Graduation, - - 251
Regulations for General and Special Honors, 258
Terms and Vacations, - - - - - - - 262
Regulations Concerning Registration, - - 262
Regulation of Attendance,- - - - - - - 263
Public Worship, - - - - - - - - - 265
Commencement Exercises, - - - - - - 265
Public Lectures, - - - - - - - - - 266

PART VII.—GROUNDS AND BUILDINGS, AND INSTITUTIONS CONNECTED WITH THE UNIVERSITY

The Campus, - - - - - - - - - - 269
Nassau Hall, - - - - - - - - - - - 270

PAGE

Dean's House, - - - - - - - - - 271
University Offices, - - - - - - - - - 271
Prospect, - - - - - - - - - - - 271
Astronomical Observatories, - - - - - 272
Dickinson Hall, - - - - - - - - - 272
School of Science Building, - - - - - 273
Marquand Chapel, - - - - - - - - 274
Alexander Hall, - - - - - - - - - 274
Isabella McCosh Infirmary, - - - - 275
Gymnasium, - - - - - - - - - - 276
McCosh Hall, - - - - - - - - - 277
Dormitories, - - - - - - - - - 277
University Library, - - - - - - - - 281
Societies, - - - - - - - - - - 288
Museums, - - - - - - - - - - 290
Laboratories and Apparatus, - - - - 296
Athletic Grounds and Buildings, - - - - 304

PART VIII.—EXPENSES, ALLOTMENT OF ROOMS, UNIVERSITY BILLS, PRIZES, SCHOLARSHIPS, REMISSION OF TUITION, AND CHARITABLE FUNDS

Expenses, - - - - - - - - - - - 309
Rules Governing the Allotment and Rental of Rooms, - - - - - - - - - - 311
University Bills, - - - - - - - - 318
Prizes, - - - - - - - - - - - 320
Endowed Scholarships, - - - - - - 329

PAGE

University Scholarships, - - - - - - - 335
Remission of Tuition, - - - - - - - 337
Funds for Candidates for the Ministry, - - 338
Charitable Fund, - - - - - - - - - 338

PART IX.—DEGREES AND HONORS 1906-1907

Honorary Degrees Conferred, - - - - - - 341
Degrees Conferred in Course, - - - - - 341
Honors and Awards of Fellowships and Prizes - 347

PART X.—ALUMNI ASSOCIATIONS, LISTS OF STUDENTS, DIRECTORY, AND INDEX

ALUMNI ASSOCIATIONS, - - - - - - - - - 359

STUDENTS OF THE UNIVERSITY
The Graduate School, - - - - - - - - - 365
The Academic Department, - - - - - - 373
The John C. Green School of Science, - - - 390
Students Qualifying for Regular Standing, - 403
Specials, - - - - - - - - - - - - - 405

GENERAL SUMMARY, - - - - - - - - - 406

SUMMARY OF STUDENTS BY STATES, - - - - - 407

ABBREVIATIONS, - - - - - - - - - - 408

DIRECTORY OF OFFICERS AND STUDENTS, - - - 409

INDEX, - - - - - - - - - - - - - - 429

OFFICE HOURS

THE PRESIDENT OF THE UNIVERSITY.—Seventy-nine Hall, Mondays, Tuesdays, and Wednesdays, from 2 to 4 P. M.

THE TREASURER OF THE UNIVERSITY.—University Offices, 9 A. M. to 1 P. M., 2.30 to 4 P. M.; Wednesdays and Saturdays, 9 A. M. to 12 M.; July 1 to September 1, 9 A. M. to 12 M.

THE REGISTRAR OF THE UNIVERSITY.—University Offices, 9 A. M. to 1 P. M., 2.30 to 4 P. M.; Wednesdays and Saturdays, 9 A. M. to 12 M.

THE SECRETARY OF THE UNIVERSITY.—Chancellor Green Library, 10 A. M. to 12 M., daily.

THE CURATOR OF GROUNDS AND BUILDINGS.—University Offices, 9 A. M. to 1 P. M., 2.30 to 4 P. M.; Wednesdays and Saturdays, 9 A. M. to 12 M.; July 1 to September 1, 9 A. M. to 12 M.

THE DEAN OF THE GRADUATE SCHOOL.—Chancellor Green Library, 10 to 11 A. M., Mondays and Thursdays.

THE DEAN OF THE FACULTY.—Dean's House, Mondays, Tuesdays, Thursdays, and Fridays, 2 to 4 P. M.; Wednesdays and Saturdays, 2 to 3 P. M.

THE COMMITTEE ON ENTRANCE, Professor Hoskins, Secretary,—22 Bank Street, 2 to 3 P. M. daily, except Saturday, during June and September.

THE COMMITTEE ON ATTENDANCE meets in the Old Faculty Room, University Offices, on Thursday, from 1.30 to 2.30 P. M. Requests and excuses for absence should be presented by the student in person.

THE COMMITTEE ON EXAMINATIONS AND STANDING, Professor Vreeland, Secretary,—The Chancellor Green Library, 12 M. to 1 P. M., Mondays and Wednesdays.

THE COMMITTEE ON OUT-DOOR SPORTS, Professor McClenahan, Secretary,—The Physical Laboratory, 12 M. to 1 P. M., Mondays, Tuesdays, and Wednesdays.

THE COMMITTEE ON NON-ATHLETIC ORGANIZATIONS, Professor Axson, Secretary,—10 Nassau Street, 2 to 3 P. M., Thursdays.

THE UNIVERSITY FACULTY meets on the first Thursday of the University year, immediately after the opening exercises of the year, and thereafter on the first and third Mondays of each month, at 5 o'clock in the afternoon. The ACADEMIC FACULTY meets on call on the second Monday of each month, at 5 o'clock in the afternoon; the FACULTY OF THE SCHOOL OF SCIENCE, on the fourth Monday of each month, at the same hour. For calendar of Faculty meetings see page 12.

For Catalogues of Princeton University apply to C. W. MCALPIN, Esq., Secretary of the University, Princeton, New Jersey.

For information concerning Entrance and Courses of Instruction apply to H. N. VAN DYKE, Esq., Registrar of the University, Princeton, New Jersey.

For information concerning the Graduate School apply to PROFESSOR A. F. WEST, Dean of the Graduate School, Princeton, New Jersey.

CALENDAR

1907

Sept. 9–21. Examinations for removal of first and second term conditions.
Sept. 16–18. Examinations for admission, held in Princeton only.
Sept. 18. First term begins.
Sept. 19. Formal opening exercises at 3 P. M.
Sept. 25. Preliminary examination of candidates for the Doctor's degree.
Oct. 17. Meeting of the Board of Trustees.
Oct. 22. Commemoration Day.
Nov. 27, 2 P. M.–Dec. 2, 10 A. M. Thanksgiving recess.
Nov. 28. Thanksgiving Day.
Dec. 9–14. Examinations for removal of entrance conditions.
Dec. 18, 2 P. M. Christmas vacation begins.

1908

Jan. 2, 10 A. M. Christmas vacation ends.
Jan. 9. Meeting of the Board of Trustees.
Feb. 5. First term examinations end.
Feb. 6. Second term begins.
Feb. 22. Washington's Birthday.
March 25. Meeting of Faculty Committee on Course of Study.
April 9. Meeting of the Board of Trustees.
April 15, 2 P. M.–April 21, 10 A. M. Spring recess.
May 30. End of Senior final examinations.

June 5. End of examinations of the three lower classes.

June 6. Junior Orator and Maclean Prize contests.

June 7. Baccalaureate Address by the President of the University in Alexander Hall.

June 8. Class Day—Commencement meeting of the Board of Trustees.

June 9. Election of an Alumni Trustee—Annual meetings of the Literary Societies and Alumni Association—Lynde Prize Debate.

June 10. 161st Annual Commencement.

June 11–13. Examinations for admission, held simultaneously in Princeton and elsewhere.

Sept. 14–26. Examinations for removal of first and second term conditions.

Sept. 21–23. Examinations for admission, held in Princeton only.

Sept. 23. First term begins.

Sept. 24. Formal opening exercises at 3 P. M.

Sept. 30. Preliminary examination of candidates for the Doctor's degree.

Oct. 15. Meeting of the Board of Trustees.

Oct. 22. Commemoration Day.

Nov. 25, 2 P. M.–Nov. 30, 10 A. M. Thanksgiving recess.

Nov. 26. Thanksgiving Day.

Dec. 14–19. Examinations for removal of entrance conditions.

Dec. 23, 2 P. M. Christmas vacation begins.

1909

Jan. 7, 10 A. M. Christmas vacation ends.

Jan. 14. Meeting of the Board of Trustees.

Feb. 10. First term examinations end.

Feb. 11. Second term begins.

Feb. 22.	Washington's Birthday.
March 24.	Meeting of Faculty Committee on Course of Study.
April 7, 2 P. M.–April 13, 10 A. M.	Spring recess.
April 8.	Meeting of the Board of Trustees.
June 5.	End of Senior final examinations.
June 11.	End of examinations of the three lower classes.
June 12.	Junior Orator and Maclean Prize contests.
June 13.	Baccalaureate Address by the President of the University in Alexander Hall.
June 14.	Class Day—Commencement meeting of the Board of Trustees.
June 15.	Election of an Alumni Trustee—Annual meetings of the Literary Societies and Alumni Association—Lynde Prize Debate.
June 16.	162nd Annual Commencement

Faculty Meetings, 1907–1908

All meetings but the first at 5 P. M.

University Faculty: September 19, October 7, 21, November 4, 18, December 2, 16, January 6, 20, February 3, 17, March 2, 16, April 6, May 4, 18, June 1.

Academic Faculty: October 14, November 11, December 9, January 13, February 10, March 9, April 13, May 11, June 8.

School of Science Faculty: September 23, October 28, November 25, January 27, February 24, March 23, April 27, May 25.

JULY, 1907

Su	M	Tu	W	Th	F	S
..	*1*	*2*	*3*	*4*	*5*	*6*
7	*8*	*9*	*10*	*11*	*12*	*13*
14	*15*	*16*	*17*	*18*	*19*	*20*
21	*22*	*23*	*24*	*25*	*26*	*27*
28	*29*	*30*	*31*	..	..	..

AUGUST, 1907

Su	M	Tu	W	Th	F	S
..	..	..	..	*1*	*2*	*3*
4	*5*	*6*	*7*	*8*	*9*	*10*
11	*12*	*13*	*14*	*15*	*16*	*17*
18	*19*	*20*	*21*	*22*	*23*	*24*
25	*26*	*27*	*28*	*29*	*30*	*31*

SEPTEMBER, 1907

Su	M	Tu	W	Th	F	S
1	*2*	*3*	*4*	*5*	*6*	*7*
8	*9*	*10*	*11*	*12*	*13*	*14*
15	*16*	*17*	18	19	20	21
22	23	24	25	26	27	28
29	30	..	..	..	..	..

OCTOBER, 1907

..	..	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	..	..

NOVEMBER, 1907

..	..	..	..	..	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	*28*	*29*	*30*

DECEMBER, 1907

1	*2*	*3*	*4*	*5*	*6*	*7*
8	9	10	11	12	13	14
15	16	17	18	*19*	*20*	*21*
22	*23*	*24*	*25*	*26*	*27*	*28*
29	*30*	*31*	..	..	..	..

JANUARY, 1908

..	..	..	*1*	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	..

FEBRUARY, 1908

..	..	..	..	..	..	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	*22*
23	24	25	26	27	28	29

MARCH, 1908

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	..	..	..	..

APRIL, 1908

..	..	..	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	..	..
..	..	..	..	..	..	..

MAY, 1908

..	..	..	..	..	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	..	..	..	..	..	..

JUNE, 1908

..	1	2	3	4	5	6
7	8	9	10	*11*	*12*	*13*
14	*15*	*16*	*17*	*18*	*19*	*20*
21	*22*	*23*	*24*	*25*	*26*	*27*
28	*29*	*30*	..	..	..	..
..	..	..	..	..	..	..

JULY, 1908

..	..	..	*1*	*2*	*3*	*4*
5	*6*	*7*	*8*	*9*	*10*	*11*
12	*13*	*14*	*15*	*16*	*17*	*18*
19	*20*	*21*	*22*	*23*	*24*	*25*
26	*27*	*28*	*29*	*30*	*31*	..
..	..	..	..	..	..	..

AUGUST, 1908

..	..	..	..	..	..	*1*
2	*3*	*4*	*5*	*6*	*7*	*8*
9	*10*	*11*	*12*	*13*	*14*	*15*
16	*17*	*18*	*19*	*20*	*21*	*22*
23	*24*	*25*	*26*	*27*	*28*	*29*
30	*31*	..	..	..	..	..

SEPTEMBER, 1908

..	..	*1*	*2*	*3*	*4*	*5*
6	*7*	*8*	*9*	*10*	*11*	*12*
13	*14*	*15*	*16*	*17*	*18*	*19*
20	*21*	*22*	23	24	25	26
27	28	29	30	..	..	..
..	..	..	..	..	..	..

OCTOBER, 1908

..	..	..	..	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
..	..	..	..	..	..	..

NOVEMBER, 1908

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	*26*	*27*	*28*
29	30	..	..	..	..	..
..	..	..	..	..	..	..

DECEMBER, 1908

..	..	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	*24*	*25*	*26*
27	*28*	*29*	*30*	*31*	..	..
..	..	..	..	..	..	..

JANUARY, 1909

..	..	..	..	..	*1*	*2*
3	*4*	*5*	*6*	*7*	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	..	..	..	..	..	..

FEBRUARY, 1909

..	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	*22*	23	24	25	26	27
28	..	..	..	..	..	..
..	..	..	..	..	..	..

MARCH, 1909

..	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	..	..	..
..	..	..	..	..	..	..

APRIL, 1909

..	..	..	..	1	2	3
4	5	6	7	*8*	*9*	*10*
11	*12*	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	..
..	..	..	..	..	..	..

MAY, 1909

..	..	..	..	..	..	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	..	..	..	..	..

JUNE, 1909

..	..	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	*17*	*18*	*19*
20	*21*	*22*	*23*	*24*	*25*	*26*
27	*28*	*29*	*30*	..	..	..
..	..	..	..	..	..	..

Days upon which the University is not in session are *italicized*.

PART I

OFFICERS OF THE UNIVERSITY

TRUSTEES OF THE UNIVERSITY

THE GOVERNOR OF THE STATE OF NEW JERSEY, *ex-officio*, PRESIDENT OF THE BOARD OF TRUSTEES.

WOODROW WILSON, Ph.D., Litt.D., LL.D., PRESIDENT OF THE UNIVERSITY and, in the absence of the Governor, President of the Board.

ELIJAH R. CRAVEN, D.D., LL.D., SENIOR TRUSTEE, Philadelphia, Pa.

HON. JOHN A. STEWART, A.M.	New York City.
M. TAYLOR PYNE, L.H.D	Princeton, N. J.
JAMES W. ALEXANDER, A.M.	New York City.
DAVID R. FRAZER, D.D	Newark, N. J.
GEORGE B. STEWART, D.D., LL.D	Auburn, N. Y.
CYRUS H. McCORMICK, A.M	Chicago, Ill.
JOHN DIXON, D.D	Trenton, N. J.
MELANCTHON W. JACOBUS, D.D	Hartford, Conn.
HON. WILLIAM J. MAGIE, LL.D	Elizabeth, N. J.
HON. BAYARD HENRY, A.M	Philadelphia, Pa.
SIMON J. McPHERSON, D.D	Lawrenceville, N. J.
HENRY W. GREEN, A.M., LL.B	Trenton, N. J.
CORNELIUS C. CUYLER, A.M	New York City.
DE WITT CLINTON BLAIR, A.M	Belvidere, N. J.
CHARLES WOOD, D.D	Philadelphia, Pa.
HON. GROVER CLEVELAND, LL.D	Princeton, N. J.
CLEVELAND H. DODGE, A.M	New York City.
ARCHIBALD D. RUSSELL, A.M	Princeton, N. J.
JOHN DE WITT, D.D., LL.D	Princeton, N. J.
ROBERT GARRETT, B.S	Baltimore Co., Md.
HENRY BURLING THOMPSON, B.S	Greenville, Del.
JOSEPH BERNARD SHEA, A.B	Pittsburg, Pa.
EDWARD WRIGHT SHELDON, A.M	New York City.

ALUMNI TRUSTEES

DAVID B. JONES, A.M.....Chicago, Ill.
(Term expires June, 1908.)

HON. JOHN L. CADWALADER, LL.D.....New York City.
(Term expires June, 1909.)

JOHN D. DAVIS, A.M., LL.B.....St. Louis, Mo.
(Term expires June, 1910.)

ALEXANDER VAN RENSSELAER, A.M....Philadelphia, Pa.
(Term expires June, 1911.)

ANDREW C. IMBRIE, A.B.....New York City.
(Term expires June, 1912.)

Clerk of the Board of Trustees
ELIJAH R. CRAVEN, D.D., LL.D.

Treasurer
HENRY G. DUFFIELD, A.B.

Secretary
CHARLES W. McALPIN, A.M.

STANDING COMMITTEES OF THE TRUSTEES

Committee on Finance

M. TAYLOR PYNE, L.H.D., Chairman.

Committee on Grounds and Buildings

ARCHIBALD D. RUSSELL, A.M., Chairman.

Committee on Library and Apparatus

HENRY W. GREEN, A.M., LL.B., Chairman.

Committee on the Curriculum

MELANCTHON W. JACOBUS, D.D., Chairman.

Committee on Morals and Discipline

JOHN DIXON, D.D., Chairman.

Committee on Honorary Degrees

THE PRESIDENT OF THE UNIVERSITY, Chairman.

Committee on the Graduate School

GROVER CLEVELAND, LL.D., Chairman.

Committee on Faculty Minutes

GEORGE B. STEWART, D.D., Chairman.

The stated meetings of the Board of Trustees are held on the third Thursday in October, on the second Thursdays of January and April, and on the Monday before Commencement.

FACULTY AND INSTRUCTORS

WOODROW WILSON, PH.D., LITT.D., LL.D.,
PRESIDENT,
McCormick Professor of Jurisprudence and Politics.
Prospect.

FRANCIS LANDEY PATTON, D.D., LL.D.,
EX-PRESIDENT,
Stuart Professor of Ethics and the Philosophy of Religion.
Springdale.

WILLIAM ALFRED PACKARD, PH.D., D.D.,
Professor of Latin, Emeritus.
College Place.

CYRUS FOGG BRACKETT, M.D., LL.D.,
Henry Professor of Physics.
4 Prospect Ave.

HENRY BEDINGER CORNWALL, E.M., PH.D.,
Professor of Chemistry and Mineralogy.
12 Morven St.

GEORGE MACLOSKIE, D.Sc., LL.D.,
Professor of Biology, Emeritus.
239 Nassau St.

CHARLES McMILLAN, A.M., C.E.,
Professor of Civil Engineering.
40 Bayard Lane.

CHARLES AUGUSTUS YOUNG, PH.D., LL.D.,
Professor of Astronomy, Emeritus.
Hanover, N. H.

CHARLES GREENE ROCKWOOD, JR., PH.D.,
Professor of Mathematics, Emeritus.
34 Bayard Lane.

THEODORE WHITEFIELD HUNT, PH.D., L.H.D.,
Professor of English.
48 Library Place.

SAMUEL ROSS WINANS, PH.D.,
Professor of Greek and Instructor in Sanskrit.
21 Morven St.

WILLIAM LIBBEY, D.Sc., Princeton,
Professor of Physical Geography and Director of the E. M. Museum of Geology and Archæology.
Thanet Lodge.

WILLIAM BERRYMAN SCOTT, PH.D., LL.D.,
Blair Professor of Geology.
56 Bayard Lane.

FREDERICK NEWTON WILLSON, A.M., C.E.,
Professor of Graphics.
Stony Brook.

ALLAN MARQUAND, PH.D., L.H.D.,
Professor of Art and Archæology and Director of the Museum of Historic Art.
Guernsey Hall.

ANDREW FLEMING WEST, PH.D., LL.D.,
HON. D. LITT., OXON.,
DEAN OF THE GRADUATE SCHOOL,
Giger Professor of Latin.
90 Bayard Lane.

ALEXANDER THOMAS ORMOND, PH.D., LL.D.,
McCosh Professor of Philosophy.
276 Nassau St.

HENRY BURCHARD FINE, PH.D., Leipsic,
DEAN OF THE FACULTY,
Dod Professor of Mathematics.
The Dean's House.

JOHN HOWELL WESTCOTT, PH.D., Princeton,
Musgrave Professor of Latin and Tutor in Roman Law.
200 Mercer St.

WILLIAM FRANCIS MAGIE, PH.D., Berlin,
CLERK OF THE FACULTY,
Professor of Physics.
78 Library Place.

ERNEST CUSHING RICHARDSON, PH.D.,
Librarian.
Absent on leave.

LEROY WILEY McCAY, D.Sc.,
Professor of Chemistry.
21 Boudinot St.

HENRY DALLAS THOMPSON, D.Sc., PH.D.,
Professor of Mathematics.
11 Morven St.

GEORGE McLEAN HARPER, PH.D., Princeton,
Holmes Professor of Belles Lettres and English Language and Literature.
Absent on leave.

WINTHROP MORE DANIELS, A.M.,
Professor of Political Economy.
210 Mercer St.

JOHN GRIER HIBBEN, PH.D., LL.D.,
Stuart Professor of Logic.
100 Bayard Lane.

PAUL VAN DYKE, D.D.,
Professor of History.
89 Library Place.

HERBERT STEARNS SQUIER SMITH, C.E.,
Professor of Civil Engineering.
14 Dickinson St.

WALTER BUTLER HARRIS, C.E.,
Professor of Geodesy.
280 Nassau St.

HENRY VAN DYKE, D.D., LL.D.,
Murray Professor of English Literature.
59 Bayard Lane.

ELMER HOWARD LOOMIS, PH.D., Strasburg,
Professor of Physics.
302 Nassau St.

EDGAR ODELL LOVETT, PH.D., Leipsic,
Professor of Astronomy.
16 Prospect Ave.

WALTER MEAD RANKIN, PH.D., Munich,
Professor of Biology.
Evelyn Place.

CHARLES FREEMAN WILLIAMS McCLURE, A.M.,
Professor of Zoology.
21 Boudinot St.

GEORGE STEVENSON PATTON, A.M.,
Professor of Moral Philosophy.
Springdale.

HOWARD CROSBY WARREN, A.M.,
Professor of Experimental Psychology.
93 Library Place.

THOMAS MARC PARROTT, PH.D., Leipsic,
Professor of English.
104 Mercer St.

EDMUND YARD ROBBINS, A.M.,
Professor of Greek.
58 University Place.

ALEXANDER HAMILTON PHILLIPS, D.Sc., Princeton,
Professor of Mineralogy.
Hodge Road.

FRED NEHER, A.M.,
Professor of Chemistry.
96 Library Place.

HARRY AUGUSTUS GARFIELD, A.B.,
Professor of Politics.
49 Library Place.

WILLIAMSON UPDIKE VREELAND, D. ès L., Geneva,
Professor of Romance Languages.
180 Mercer St.

STOCKTON AXSON, A.M.,
Professor of English.
10 Nassau St.

JOHN HAUGHTON CONEY, A.M.,
Professor of History.
78 Alexander St.

WILLIAM KELLY PRENTICE, PH.D., Halle,
Professor of Greek.
72 Stockton St.

CHARLES HENRY SMYTH, JR., PH.D., Columbia,
Professor of Geology.
70 Hodge Road.

JAMES HOPWOOD JEANS, M.A., F.R.S.,
Professor of Applied Mathematics.
220 Mercer St.

HOWARD CROSBY BUTLER, A.M.,
Professor of Art and Archæology.
Merwick.

NORMAN SMITH, PH.D., St. Andrews,
Stuart Professor of Psychology.
95 Mercer St.

HOWARD McCLENAHAN, E.E., M.S.,
Professor of Physics.
12 Bank St.

OWEN WILLANS RICHARDSON, A.M., D.Sc.,
Professor of Physics.
25 Bank St.

AUGUSTUS TROWBRIDGE, PH.D., Berlin,
Professor of Physics.
Hodge Road.

DUANE REED STUART, PH.D., Michigan,
Professor of Classics.
Broadmead.

CHRISTIAN GAUSS, A.M.,
Professor of Modern Languages.
22 Alexander St.

EDWARD CAPPS, PH.D., Yale,
Professor of Classics.
36 Mercer St.

Professor of Biology.

JUNIUS SPENCER MORGAN, A.M.,
Associate Librarian.
Constitution Hill.

JOHN PRESTON HOSKINS, PH.D., Berlin,
Assistant Professor of German.
22 Bank St.

WALTER AUGUSTUS WYCKOFF, A.M.,
Assistant Professor of Political Economy.
17 Boudinot St.

HARRY FRANKLIN COVINGTON, A.M.,
Assistant Professor of English.
34 Edgehill St.

ULRIC DAHLGREN, M.S.,
Assistant Professor of Biology.
7 Evelyn Place.

ROBERT McNUTT McELROY, PH.D., Princeton,
Assistant Professor of American History.
Absent on leave.

MAX FRIEDRICH BLAU, PH.D., Leipsic,
Assistant Professor of German.
27 Bank St.

GEORGE AUGUSTUS HULETT, PH.D., Leipsic,
Assistant Professor of Physical Chemistry.
2 Murray Place.

LUCIUS HOPKINS MILLER, A.M.,
Assistant Professor of Biblical Instruction.
15 Alexander St.

WILLIAM FOSTER, PH.D., Princeton,
Assistant Professor of Chemistry.
Broadmead.

EDWIN PLIMPTON ADAMS, PH.D., Harvard,
Assistant Professor of Physics.
12 Nassau St.

PHILIP ELY ROBINSON, PH.D., Giessen,
Assistant Professor of Physics.
37 Bank St

HEREWARD LESTER COOKE, M.A.,
Assistant Professor of Physics.
12 Nassau St.

ROGER BRUCE CASH JOHNSON, PH.D., Princeton,
Earl Dodge Preceptor in Philosophy.
Broadmead.

ADAM LEROY JONES, PH.D., Columbia,
Preceptor in Philosophy.
108 Patton Hall.

WALTER TAYLOR MARVIN, PH.D., Bonn,
Preceptor in Philosophy.
Broadmead.

WILMON HENRY SHELDON, PH.D., Harvard,
Preceptor in Philosophy.
14 University Place.

EDWARD GLEASON SPAULDING, PH.D., Bonn,
Preceptor in Philosophy.
82 Patton Hall.

WALTER MAXWELL ADRIANCE, A.M:,
Preceptor in History, Politics, and Economics.
Fitz Randolph Road.

ERNEST LUDLOW BOGART, PH.D., Halle,
Preceptor in History, Politics, and Economics.
11 Bank St.

EDWARD SAMUEL CORWIN, PH.D., Pennsylvania,
Preceptor in History, Politics, and Economics.
8 West Witherspoon Hall.

EDGAR DAWSON, PH.D., Leipsic,
Preceptor in History, Politics, and Economics.
Broadmead.

EDWARD GRAHAM ELLIOTT, PH.D., Heidelberg,
Robert Stockton Pyne Preceptor in History, Politics, and Economics.
16 South West College.

CHARLES HOWARD McILWAIN, A.M.,
Robert Stockton Pyne Preceptor in History, Politics, and Economics.
4 Linden Lane.

ROYAL MEEKER, PH.D., Columbia,
Preceptor in History, Politics, and Economics.
61 Wiggins St.

WILLIAM STARR MYERS, PH.D., Johns Hopkins,
Preceptor in History, Politics, and Economics.
26 Bank St

HENRY ROBINSON SHIPMAN, PH.D., Harvard,
Preceptor in History, Politics, and Economics.
27 Mercer St.

CHARLES WORTHEN SPENCER, PH.D., Columbia,
Preceptor in History, Politics, and Economics.
24 Mercer St.

CHARLES RUFUS MOREY, A.M.,
Preceptor in Art and Archæology.
32 Vandeventer Ave.

OLIVER SAMUEL TONKS, PH.D., Harvard,
Preceptor in Art and Archæology.
15 Madison St.

ANDREW RUNNI ANDERSON, PH.D., Harvard,
Preceptor in Classics.
35 Bank St.

JOHN WILLIAM BASORE, PH.D., Johns Hopkins,
Preceptor in Classics.
26 Bank St.

DONALD CAMERON, PH.D., Harvard,
Preceptor in Classics.
27 William St.

HAROLD RIPLEY HASTINGS, A.M.,
Preceptor in Classics.
35 Bank St.

GEORGE DWIGHT KELLOGG, PH.D., Yale,
Preceptor in Classics.
10 Nassau St.

DONALD ALEXANDER MACRAE, PH.D., Cornell,
Preceptor in Classics.
20 Madison St.

DAVID MAGIE, JR., PH.D., Halle,
William Alfred Packard Preceptor in Classics.
12 Nassau St.

EDWIN MOORE RANKIN, PH.D., Harvard,
Preceptor in Classics.
43 Seventy-nine Hall.

LARUE VAN HOOK, PH.D., Chicago,
Preceptor in Classics.
35 Bank St.

LEROY CARR BARRETT, PH.D., Johns Hopkins,
Preceptor in Classics.
37 Nassau St.

AUSTIN MORRIS HARMON, A.M.,
Preceptor in Classics.
32 Mercer St.

HARDIN CRAIG, PH.D., Princeton,
Edgerstoune Preceptor in English.
52 University Place.

MORRIS WILLIAM CROLL, PH.D., Pennsylvania,
Preceptor in English.
53 Patton Hall.

GORDON HALL GEROULD, B.LITT., Oxon.,
John Rutherfurd Preceptor in English.
5 South East David Brown Hall.

NATHANIEL EDWARD GRIFFIN, PH.D., Johns Hopkins,
Preceptor in English.
14 North Albert B. Dod Hall.

AUGUSTUS WHITE LONG, A.M.,
Preceptor in English.
110 Bayard Lane.

FRANCIS CHARLES MACDONALD, A.B.,
Preceptor in English.
The Bachelors.

LOUIS WARDLAW MILES, PH.D., Johns Hopkins,
Preceptor in English.
272 Nassau St.

CHARLES GROSVENOR OSGOOD, JR., PH.D., Yale,
Preceptor in English.
13 Little Hall.

ROBERT KILBURN ROOT, PH.D., Yale,
Preceptor in English.
8 East David Brown Hall.

JOHN DUNCAN SPAETH, PH.D., Leipsic,
Preceptor in English.
20 Alexander St.

JACOB NEWTON BEAM, PH.D., Jena,
Preceptor in Modern Languages.
52 Bayard Lane.

DOUGLAS LABAREE BUFFUM, PH.D., Johns Hopkins,
Preceptor in Modern Languages.
107 Alexander St.

VARNUM LANSING COLLINS, A.M.,
Preceptor in Modern Languages.
31 Bank St.

FRANK LINLEY CRITCHLOW, PH.D., Johns Hopkins,
Preceptor in Modern Languages.
8 North West College.

WILLIAM KOREN, A.M.,
Preceptor in Modern Languages.
65 Blair Hall.

ALFRED AUSTIN MOORE, A.B.,
Preceptor in Modern Languages.
10 Nassau St.

GEORGE TYLER NORTHUP, PH.D., Chicago,
Preceptor in Modern Languages.
43 Patton Hall.

GEORGE MADISON PRIEST, PH.D., Jena,
Preceptor in Modern Languages.
5 South East David Brown Hall.

HARVEY WATERMAN THAYER, PH.D., Columbia,
Preceptor in Modern Languages.
30 Mercer St.

RÉGIS MICHAUD, Licencié ès lettres, Sorbonne,
Preceptor in Modern Languages.
30 Mercer St.

GILBERT AMES BLISS, PH.D., Chicago,
Preceptor in Mathematics.
35 Bank St.

LUTHER PFAHLER EISENHART, PH.D., Johns Hopkins,
Preceptor in Mathematics.
63 Little Hall.

WILLIAM GILLESPIE, PH.D., Chicago,
Preceptor in Mathematics.
10 Nassau St.

OSWALD VEBLEN, PH.D., Chicago,
Preceptor in Mathematics.
34 Little Hall.

JOHN WESLEY YOUNG, PH.D., Cornell,
Preceptor in Mathematics.
15 Madison St.

MARCUS STULTS FARR, D.Sc., Princeton,
Preceptor in Geology.
12 Maple St.

GEORGE WASHINGTON TAPLEY WHITNEY, PH.D., Cornell,
Instructor in Philosophy,
18 Madison St.

PHILIP HOWARD FOGEL, PH.D., Princeton,
Instructor in Philosophy.
6 South Middle Reunion Hall.

CLEMENT LESLIE VAUGHAN, PH.D., Harvard,
Demonstrator in Psychology.
26 South Edwards Hall.

BENJAMIN MARSDEN PRICE, B.C.L., Oxon.,
Instructor in Jurisprudence and Politics.
30 Mercer St.

WALTER LINCOLN WHITTLESEY, A.B.,
Instructor in History, Politics, and Economics.
45 Wiggins St.

IVORY VICTOR ILES, A.M.,
Instructor in History, Politics, and Economics.
11 East Witherspoon Hall.

EDWIN WILLIAM PAHLOW, A.M.,
Instructor in History, Politics, and Economics.
73 Prospect Ave.

WILLIAM ALEXANDER FLEET, A.M.,
Instructor in Classics.
30 Mercer St.

HERBERT PIERPONT HOUGHTON, PH.D., Johns Hopkins,
Instructor in Classics.
166 Nassau St.

PAUL NIXON, A.M.,
Instructor in Classics.
33 Bank St.

HARRY BROWN VAN DEVENTER, A.B.,
Instructor in Classics.
12 Nassau St.

GEORGE DOBBIN BROWN, PH.D., Johns Hopkins,
Instructor in English.
17 Alexander St.

MAXWELL STRUTHERS BURT, A.B.,
Instructor in English.
Merwick.

HERBERT SPENCER MURCH, PH.D., Yale,
Instructor in English.
17 Alexander St.

WILLIAM HARRY CLEMONS, A.M.
Instructor in English.
4 East Witherspoon Hall.

CHARLES EDWARD LYON, PH.D., Johns Hopkins,
Instructor in Modern Languages.
The Bachelors.

CHARLES EUGLEY MATHEWS, A.B.,
Instructor in Modern Languages.
166 Nassau St.

ALFRED ERNEST RICHARDS, PH.D., Munich,
Instructor in Modern Languages.
14 University Place.

SIGMUND GOTTFRIED SPAETH, A.M.,
Instructor in Modern Languages.
20 Alexander St.

DONALD CLIVE STUART, A.M.,
Instructor in Modern Languages.
The Western Way.

JOHN GALE HUN, PH.D., Johns Hopkins,
Instructor in Mathematics.
132 Mercer St.

CHARLES RANALD MACINNES, PH.D., Johns Hopkins,
Instructor in Mathematics.
14 Vandeventer Ave.

ROBERT LEE MOORE, PH.D., Chicago,
Instructor in Mathematics.
23 Madison St.

CARL EBEN STROMQUIST, PH.D., Yale,
Instructor in Mathematics.
49 Wiggins St.

ELIJAH SWIFT, PH.D., Göttingen,
Instructor in Mathematics.
23 Madison St.

RAYMOND SMITH DUGAN, PH.D., Heidelberg,
Instructor in Astronomy.
14 Prospect Ave.

HENRY NORRIS RUSSELL, PH.D., Princeton,
Instructor in Astronomy.
79 Alexander St.

CLINTON JOSEPH DAVISSON,
Instructor in Physics.
5 Nassau St.

PHILLIPS THOMAS, B.S.,
Instructor in Electrical Engineering and Physics.
5 Nassau St.

LIONEL HERMAN DUSCHAK, A.B.,
Instructor in Chemistry.
14 Park Place.

TRUMAN STEPHEN WOODWARD, A.B.,
Instructor in Chemistry.
33 Blair Hall.

WILLIAM RICHEY HULSIZER, A.B.,
Assistant in Chemistry.
8 North Reunion Hall.

ISAAC RIPPLE SCHUMAKER, A.B.,
Assistant in Chemistry.
7 Park Place.

WILLIAM DOLTON PARDOE, B.S.,
Assistant in Mineralogy.
10 Maple St.

WILLIAM JOHN SINCLAIR, PH.D., California,
Instructor in Geology.
7 Evelyn Place.

GILBERT VAN INGEN,
Assistant in Geology.
Broadmead.

CHARLES FREDERICK SILVESTER,
Assistant in Anatomy.
10 Nassau Hall.

EDWARD CHARLES McWILLIAMS, B.S.,
Instructor in the Department of Civil Engineering.
60 Wiggins St.

HARRY NEWTON CLARK, C.E.,
Instructor in the Department of Civil Engineering.
9 South Edwards Hall.

WILLIAM EARL CORY, C.E.,
Instructor in the Department of Civil Engineering.
8 South Edwards Hall.

NATHANIEL DAIN, C.E.,
Instructor in the Department of Civil Engineering.
Cannon Club.

THE STAFFORD LITTLE LECTURESHIP ON PUBLIC AFFAIRS

Founded by the Honorable Henry Stafford Little,
of the Class of 1844.

Lecturer:
THE HONORABLE GROVER CLEVELAND, LL.D.,
Ex-President of the United States.

UNIVERSITY OFFICERS

WOODROW WILSON, PH.D., LITT.D., LL.D.,
President.
Seventy-nine Hall.

ELIJAH RICHARDSON CRAVEN, D.D., LL.D.,
Clerk of the Board of Trustees.
4516 Chester Ave., Philadelphia.

HENRY BURCHARD FINE, PH.D.,
Dean of the Faculty.
The Dean's House.

ANDREW FLEMING WEST, PH.D., LL.D.,
HON. D. LITT., OXON.,
Dean of the Graduate School.
Chancellor Green Library.

HENRY GREEN DUFFIELD, A.B.,
Treasurer.
University Offices.

HENRY NEVIUS VAN DYKE, A.M.,
Registrar.
University Offices.

CHARLES WILLISTON McALPIN, A.M.,
Secretary of the University.
Chancellor Green Library.

HENRY CONRAD BUNN,
Curator of Grounds and Buildings.
University Offices.

WALTER MEAD RANKIN, PH.D., Munich,
Curator of the Zoological Museum.
Evelyn Place.

ULRIC DAHLGREN, M.S.,
Associate Curator of the Zoological Museum.
7 Evelyn Place.

GILBERT VAN INGEN,
Curator of Invertebrate Palæontology.
8 Maple St.

MARCUS STULTS FARR, D.Sc., Princeton,
Curator of Vertebrate Palæontology.
12 Maple St.

WILLIAM EARL DODGE SCOTT, B.S.,
Curator of the Department of Ornithology.
Princeton.

CHARLES FREDERICK SILVESTER,
Curator of the Morphological Museum.
10 Nassau Hall.

Reference Librarian.

CHARLOTTE MARTINS,
Chief of Purchase Department, University Library.
The Western Way.

CHARLES ALBERT GEORGE, A.M.,
Chief of Catalogue Department, University Library.
282 Nassau St.

GILBERT FAIRCHILD CLOSE, A.B.,
Secretary to the President,
43 Seventy-nine Hall.

JOHN BURCHARD FINE, A.B.,
Director of Athletics.
Princeton Preparatory School.

JOHN SAVILLE COSGRAVE,
Assistant to the Treasurer.
University Offices.

L. VALDEMAR SILVESTER,
Preparator in Biology.
Mt. Lucas.

GEORGE GOLDIE,
Director of the Gymnasium.
35 University Place.

SAMUEL SMALLWOOD FEAGLES, A.B.,
Assistant Director of the Gymnasium.
The Gymnasium.

WALTER RUE COTTRELL,
Organist.
1 Nassau St.

CHARLES E. BURNHAM,
Choirmaster.
24 Mercer St.

FREDERICK FISHER,
Mechanician.
10 Dickinson St.

WILLIAM JAMES COAN,
Proctor.
2 North Middle Reunion Hall.

STANDING COMMITTEES OF THE FACULTY

University Faculty—Clerk—PROFESSOR MAGIE.

Academic Faculty—Clerk—PROFESSOR MCELROY.

School of Science Faculty—Clerk—PROFESSOR CORNWALL.

Attendance—Chairman—PROFESSOR ROBBINS.

Catalogue—Chairman—PROFESSOR MAGIE,
Secretary—PROFESSOR THOMPSON.

Course of Study—Chairman—THE PRESIDENT,
Secretary—DEAN WEST.

Discipline—Chairman—DEAN FINE.
Secretary—PROFESSOR LOVETT.

Entrance—Chairman—PROFESSOR WINANS,
Secretary—PROFESSOR HOSKINS,
Secretary for Local Examinations—THE REGISTRAR.

Examinations and Standing—Chairman—DEAN FINE,
Secretary—PROFESSOR VREELAND.

Graduate School—Chairman—DEAN WEST,
Secretary—PROFESSOR MAGIE.

Library—Chairman—PROFESSOR BRACKETT.

Music—Chairman—PROFESSOR MARQUAND.

Non-Athletic Organizations—Chairman—PROFESSOR HIBBEN,
Secretary—PROFESSOR AXSON.

Out-Door Sports—Chairman—PROFESSOR SCOTT,
Secretary—PROFESSOR MCCLENAHAN.

Sanitation—Chairman—PROFESSOR BRACKETT,
Secretary—THE CURATOR.

Schedules—Chairman—PROFESSOR THOMPSON.

Teachers and Schools—Chairman—PROFESSOR THOMPSON,
Secretary—PROFESSOR WINANS.

NOTE.—For the office hours of the Secretaries of the various Standing Committees, see page 8.

PART II

HISTORY AND GOVERNMENT OF THE UNIVERSITY

HISTORY AND GOVERNMENT OF THE UNIVERSITY

At the beginning of the eighteenth century there were but three institutions of higher learning in the colonies: Harvard and Yale in New England and the College of William and Mary in Virginia.

In 1739 a movement was set on foot by the Synod of Philadelphia to establish a college in the Middle Colonies and a committee was appointed to carry out the plan. But, the time not being propitious, the project was laid aside without any material progress. In the meantime the Log College, founded near the Forks of Neshaminy, Pennsylvania, by the Rev. William Tennent, Sr., a graduate of Edinburgh University, and a member of the Synod of Philadelphia, had been so successful in its efforts to educate candidates for the ministry, that at the closing of the institution on the death of its founder the abandoned project of the erection of a college, to rank with Harvard, Yale, and William and Mary, was again taken up by its adherents, who had by this time withdrawn from the Synod of Philadelphia and had formed the Synod of New York. The project was this time successfully carried out, and in 1746 a charter was granted to the applicants, passing the great seal of the Province of New Jersey on October 22nd of that year, attested by Acting Governor John Hamilton, of His Majesty's Council. The original trustees named in this instrument were Messrs. William Smith, Peter Van Brugh Livingston, and William Peartree Smith, and the Reverends Jonathan Dickinson, John Pierson,

Ebenezer Pemberton, and Aaron Burr. By the terms of the charter these seven trustees were empowered to choose five others to complete the Board; and, knowing the hearty favor with which the friends of the defunct Log College viewed the movement, they elected to the vacancies the Reverends Gilbert Tennant and William Tennant, Jr., Samuel Blair, Richard Treat, and Samuel Finley, all but one, Mr. Treat, graduates of the Log College.

The charter of 1746 is not of record, although a memorandum of its grant appears among the records of charters and commissions in the office of the Secretary of State at Trenton, New Jersey. Its substance is set forth in an advertisement which appeared in the *Pennsylvania Gazette* of August 13, 1747, which is as follows:

Philadelphia, August 13, 1746–7.

These are to give Notice to all concerned, That by His Majesty's Royal Charter for erecting a college in New-Jersey, for the instructing of youth in the learned languages, and in the liberal arts and sciences, bearing date October 22d, 1746, Messrs. William Smith, Peter Vanbrugh Livingston, William Peartree Smith, gent. and Messrs. Jonathan Dickenson, John Pierson, Ebenezer Pemberton, and Aaron Burr, ministers of the gospel, are appointed trustees of the said college; with full power to any four or more of them, to chuse five more trustees to the exercise of equal power and authority in the said college, with themselves. By virtue of which power, the said trustees, nominated in the charter, have chosen the Rev. Messrs. Gilbert Tennant, William Tennant, Samuel Blair, Richard Treat, and Samuel Finley, as trustees of the said college of New-Jersey:

Which trustees are by the said charter, constituted a body corporate and politick, both in fact and name, with full power to act as such to all intents and Purposes, and rendred capable of a perpetual succession to continue forever. By which royal charter, there is authority given to the major part of any seven or more of the said trustees, and their successors conveen'd for that purpose, to purchase, receive, and dispose of any possessions, tenements, goods and chattels, gifts, legacies, donations and bequests, rents, profits and annuities of any kind whatsoever, and to build

any house or houses, as they shall think proper, for the use of the said college. And also by the said charter is given to the major part of any seven or more of the said trustees and their successors, full power to chuse, and at pleasure to displace, a president, tutors, professors, treasurer, clerk, steward, and usher, with any other ministers, and officers as are usual in any of the universities or colleges in the realm of Great Britain.

And also by the said charter is given to the major part of any seven of the said trustees and their successors, full power to make any laws, acts and ordinances, for the government of the said college, as are not repugnant to the laws and Statutes of the realm of Great Britain, nor to the Laws of the Province of New-Jersey; provided, that no person be debarred any of the priviliges of the said college on account of any speculative principles of religion; but those of every religious profession, having equal privilege and advantage of education in the said college. And also by the said charter, power is given to the major part of any seven of the said trustees and their successors, by their president, or any other appointed by them, to give any such degrees as are given in any of the universities or colleges in the realm of Great Britain, to any such as they shall judge qualified for such degrees; and power to have and use a common seal to seal and confirm diplomas or certificates of such degrees, or for any other use which they shall think proper.

And these may further notify all concern'd, that the said trustees have chosen the Rev. Mr. Jonathan Dickinson president, whose superior Abilities are well known; and Mr. Caleb Smith tutor of the said college; and that the college is now actually opened, to be kept at Elizabeth-Town, till a building can be erected in a more central place of the said province for the r sidence of the Students; that all who are qualified for it, may be immediately admitted to an academick education, and to such class and station in the college, as they are found upon examination to deserve; and that the charge of the college to each student, will be Four Pounds a year New-Jersey money, at Eight Shillings per ounce, and no more.

In the summer of 1747 Jonathan Belcher, Esq., the newly appointed Governor of New Jersey, arrived in the Colony, and at once manifested the deepest interest in the infant college. The original charter not being entirely

satisfactory, Governor Belcher granted a second, which passed the seal of the Province on September 14, 1746. The text of the Second Charter is as follows:

CHARTER OF THE TRUSTEES OF THE COLLEGE OF NEW JERSEY

George the Second by the Grace of God of Great Britain France and Ireland King Defender of the Faith etc. TO ALL TO WHOM these presents shall come GREETING. WHEREAS sundry of our loving Subjects, well disposed and publick spirited Persons, have lately by their humble petition, presented to our trusty and well beloved Jonathan Belcher Esquire Governor and Commander in Chief of our province of New Jersey in America, represented the great Necessity of comeing into some Method for encouraging and promoting a learned Education of our Youth in New Jersey, and have expressed their earnest Desire that a College may be erected in our said province of New Jersey in America, for the Benefit of the Inhabitants of the said Province and others, wherein Youth may be instructed in the learned Languages, and in the liberal Arts and Sciences. AND WHEREAS by the fundamental Concessions made at the first Settlement of New Jersey by the Lord Berkeley and Sir George Carteret then proprietors thereof, and granted under their Hands and the seal of the Said Province, bearing Date the Tenth Day of February in the Year of our Lord one thousand six hundred and Sixty four, it was, among other things conceded and agreed that "no Freeman within the said Province of New Jersey should at any time be molested, punished, disquieted, or called in Question for any difference in Opinion or Practice in Matters of religious Government, who do not actually disturb the civil peace of the said province, but that all and every such Person or Persons might from time to time and at all times thereafter freely and fully have and enjoy his and their judgments and Consciences, in Matters of Religion throughout the said Province they behaveing themselves peaceable and quietly and not using this Liberty to Licentiousness, nor to the civil Injury or outward disturbance of others." As by the said Concessions on Record in the Secretary's Office of New Jersey at Perth Amboy in Lib. 3 Folio 66 &c, may appear. WHEREFORE, and for that the said Petitioners have also expressed their earnest Desire that those of every religious Denomination may have free and equal Liberty and Advantages of

Education in the said College, any different Sentiments in Religion notwithstanding: WE being, willing to grant the reasonable Request and Prayers of all our loving Subjects and to promote a liberal and learned Education among them. KNOW YE THEREFORE THAT WE, considering the Premises, and being willing for the future that the best Means of Education be established in our said Province of New Jersey for the Benefit and Advantage of the Inhabitants of our said Province and others; DO, of our special Grace certain Knowledge and mere Motion, by these Presents will, ordain, grant and constitute, that there be a College erected in our said Province of New Jersey, for the Education of Youth in the learned Languages and in the liberal Arts and Sciences, and that the Trustees of the Said College and their Successors for ever may and shall be one Body Corporate and politick in Deed Action and Name, and Shall be called and named, and distinguished by the Name of THE TRUSTEES OF THE COLLEGE OF NEW JERSEY. AND further, wee have willed given granted constituted and appointed, And this by our present CHARTER of our special Grace, certain Knowledge and mere Motion, WE DO, for us our Heirs and Successors, will, give, grant, constitute and ordain that there shall in the said College from henceforth for ever be a Body politick, consisting of Trustees of the said College of New Jersey. AND, for the more full and perfect Erection of the said Corporation and Body Politick consisting of Trustees of the College of New Jersey WE of our especial Grace, certain Knowledge and mere Motion, DO by these presents for us our Heirs and Successors create, make, ordain, constitute nominate, and appoint the Governor, and Commander in Chief of our said Province of New Jersey for the Time being, and also our trusty and well beloved John Reading, James Hude, Andrew Johnston, Thomas Leonard, John Kinsey, Edward Shippen, and William Smith Esquires, Peter Van Brugh Livingston, William Peartree Smith and Samuel Hazard Gentlemen, John Pierson, Ebenezer Pemberton, Joseph Lamb, Gilbert Tennent, William Tennent, Richard Treat, Samuel Blair, David Cowel, Aaron Burr, Timothy Jones, Thomas Arthur, Jacob Green, Ministers of the Gospel, to be Trustees of the said College of New Jersey. [Repealed clause relative to oaths omitted.] THAT no Meeting of the Trustees Shall be Valid or legal for doing any Business whatsoever unless the Clerk has duly and legally notified each and every Member of the Corporation, of such Meeting, and that before the entering on any Business the Clerk shall

certify such Notification under his Hand to the Board of Trustees. THAT the said Trustees have full Power and Authority, or any thirteen [number changed] or greater Number of them, to elect nominate and appoint, and associate unto them any Number of Persons as Trustees, upon any Vacancy, so that the whole number of the Trustees exceed not twenty-three [altered to twenty-seven], whereof the president of the said College for the Time being to be chosen as hereafter mentioned, to be one, and twelve of the Said Trustees to be always Such persons as are Inhabitants of our said Province of New Jersey. AND WE DO FURTHER of our especial Grace, certain Knowledge, and meer Motion, for us our Heirs and Successors, will, give grant, and appoint, that the said Trustees and their Successors shall for ever here after be, in Deed, Fact, and Name a Body Corporate and Politick, and that they the said Body Corporate and Politick Shall be known and distinguished in all Deeds. Grants, Bargains, Sales, Writings, Evidences, Muniments, or otherwise howsoever, and, in all Courts for ever hereafter, plead and be impleaded by the Name of the Trustees of the College of New Jersey. AND that they the said Corporation, by the Name aforesaid, Shall be able, and in Law capable, for the use of the said College to have, get, acquire, purchase, receive, and possess Lands, Tenements, Hereditaments, Jurisdictions and Franchises for themselves, and their Successors, in Fee Simple or otherwise howsoever; AND to purchase receive or build any House or Houses, or any Other Buildings as they Shall think needfull or convenient for the Use of the Said College of New Jersey, and in such Place or places in New Jersey, as they the said Trustees shall agree upon. AND also to receive and dispose of any Goods, Chattles and other things of what Nature soever for the Use aforesaid, and receive any Rents, Profits, Annuities, Gifts, Legacies, Donations, and Bequests of any kind whatsoever for the Use aforesaid, so nevertheless the yearly clear Value of the Premises do not exceed the sum of two thousand Pounds Sterling [amount changed]. AND therewith or otherwise to support and pay (as the said Trustees and their Successors or the major Part of such of them as (according to the Provision herein afterwards) are regularly convened for that purpose shall agree and see Cause) the President, Tutors, and other Officers or Minister of the said College, their respective annual Salaries or Allowance and all such other necessary and contingent Charges as from time to time Shall arise and accrue relating to the Said College. AND also to grant, bargain, Sell,

let, set, or assign, Lands Tenements, or Hereditaments Goods or Chattles, contract or do all other things whatsoever, by the Name aforesaid and for the Use aforesaid, in as full and ample Manner to all Intents and Purposes, as any natural Person or other Body Politick or Corporate is able to do, by the Laws of our Realm of Great Britain or of our said Province of New Jersey. AND OF OUR FURTHER Grace, certain Knowledge, and meer Motion, to the Intent that our said Corporation and Body Politick may answer the end of their Erection and Constitution, and may have perpetual Succession and continue for ever. We do for us our Heirs and Successors hereby will, give, and grant unto the said Trustees of the College of New Jersey, and to their Successors for ever, that when Any thirteen [number changed, and so below wherever thirteen stands] of the said Trustees or of their Successors are convened and met together as aforesaid for the Service of the said College, the Governor and Commander in Chief of our said Province of New Jersey, and in his Absence the President of the said College, and in the absence of the said Governor and President, the eldest Trustee present at such Meeting, from time to time, Shall be president of the said Trustees at all their Meetings, and at any time or times such thirteen Trustees convened and met as aforesaid Shall be capable to act as fully and amply to all Intents and Purposes, as if all the Trustees of the said College were personally present. PROVIDED always that a Majority of the said thirteen Trustees be of the said Province of New Jersey, except, after regular Notice they fail of coming, in which Case those that are present are hereby impowered to act, the different place of their Abode notwithstanding, and all affairs and Actions whatsoever under the Care of the said Trustees shall be determined by the Majority or greater Number of those thirteen so convened and met together, the President whereof shall have no more than a single vote. AND WE DO for us our Heirs and Successors hereby will, give and grant full Power and Authority to any six or more of the said Trustees to call Meetings of the said Trustees from time to time and to order Notice to the said Trustees of the Times and Places of Meeting for the Service aforesaid. AND ALSO WE DO hereby for us our Heirs and Successors, will, give, and grant to the said Trustees of the College of New Jersey, and to their Successors for ever, that the Said Trustees, do elect nominate, and appoint such a qualified Person as they or a major Part of any thirteen of them, convened for that purpose as above directed, Shall

think fit, to be the President of the said College, and to have the immediate Care of the Education and Government of such Students as shall be sent to, and admitted into the said College for Instruction and Education. AND ALSO that the said Trustees do elect nominate and appoint so many Tutors and Professors to assist the President of the said College, in the Education and Government of the Students belonging to it, as they the said Trustees or their Successors or the major part of any thirteen of them, which shall convene for that purpose as above directed, Shall from time to time and at any time hereafter think needful and serviceable to the Interests of the said College.

AND ALSO THAT THE SAID TRUSTEES AND THEIR SUCCESSORS, or the major Part of any thirteen of them, which shall convene for that purpose as above directed, Shall at any time displace and discharge from the Service of the said College, such President Tutors and Professors, and to elect others in their Room and Stead AND ALSO that the said Trustees or their Successors, or the major Part of any thirteen of them which Shall convene for that Purpose as above directed, do from time to time as occasion Shall require, elect, constitute and appoint a Treasurer, a Clerk, an Usher, and a Steward for the said College, and appoint to them and each of them their respective Business and Trusts, and displace and discharge, from the Service of said College, such Treasurer, Clerk, Usher, or Steward, and to elect others in their Room and Stead, which President, Tutors, Professors, Treasurer, Clerk, Usher, and Steward, so elected and appointed, WE DO for us our Heirs and Successors, by these Presents constitute and establish in their several Offices, and do give them and every of them full Power and Authority to exercise the same in the said College of New Jersey, according to the Direction and during the Pleasure of the said Trustees, as fully and freely as any other the like Officers in our Universities or any of our Colleges in our Realm of Great Britain lawfully may and ought to do. AND ALSO that the said Trustees and their Successors or the major Part of any thirteen of them, which shall convene for that Purpose as above directed, as often as one or more of the said Trustees Shall happen to dye, or by removal or Otherwise Shall become unfit or uncapable according to their Judgment to serve the Interest of the said College, do, as soon as conveniently may be after the Death, Removal, or such Unfitness or Incapacity of such Trustee or Trustees to serve the Interest of the said College, elect and appoint such other

Trustee or Trustees as shall supply the place of him or them so dying, or Otherwise becoming unfit or uncapable to serve the Interest of the said College; and every Trustee so elected and appointed, Shall by Vertue of these presents and of such Election and Appointment be vested with all the Power and Privileges which any of the other Trustees of the said College are hereby invested with, AND WE DO FURTHER of our especial Grace, certain Knowledge and meer Motion, will, give, and grant, and by these Presents do, for us our Heirs and Successors, will, give, and grant, unto the said Trustees of the College of New Jersey, that they and their Successors, or the major Part of any thirteen of them, which Shall convene for that Purpose, as above directed, may make, and they are hereby fully impowered from Time to Time, freely and lawfully to make and establish such Ordinances, Orders, and Laws, as may tend to the good and wholesome Government of the said College, and all the Students and the several officers and Ministers thereof, and to the public Benefit of the same, not repugnant to the Laws and Statutes of our Realm of Great Britain or of this our Province of New Jersey, and not excluding any Person of any religious Denomination, whatsoever from free and equal Liberty and Advantage of Education, or from any of the Liberties Priviliges or Immunities of the said College on Account of his or their being of a religious profession different from the said Trustees of the said College, and Such Ordinances, Orders, and Laws, which Shall be so as aforesaid made, WE DO by these Presents for us our Heirs and Successors ratify, allow of, and confirm as good and effectual to oblige and bind all the said Students, and the several Officers and Ministers of the said College, AND WE DO hereby authorize and impower the said Trustees of the College, and the President, Tutors and Professors by them elected and appointed to put such Ordinances and Laws in Execution to all Proper Intents and Purposes. AND WE DO FURTHER of our especial Grace, certain Knowledge, and meer Motion, will, give, and grant, unto the said Trustees of the College of New Jersey that for the Encouragement of Learning and animating the Students of the said College to Diligence Industry and a laudable Progress in Literature, that they and their Successors, or the major Part of any thirteen of them convened for that Purpose as above directed, do, by the President of the said College for the time being or by any other deputed by them give and grant any such Degree and Degrees to any of the Students of the said College, or to any others by

them thought worthy thereof as are usually granted in either of our Universities or any other College in our Realm of Great Britain, and that they do sign and seal Diplomas or Certificates of such Graduations to be kept by the Graduates as Perpetual Memorials or Testimonials thereof. AND FURTHER of our especial Grace, certain Knowedge, and meer Motion, WE DO by these Presents for us our Heirs and Successors give and grant unto the Said Trustees of the College of New Jersey and to their Successors, that they and their Successors Shall have a common Seal under which they may pass all Diplomas and Certificates of Degrees, and all other the Affairs and Business of and concerning the said Corporation, or of and concerning the said College of New Jersey, which shall be engraven in Such Form and with such Inscription as Shall be devised by the said Trustees of the said College, or the major Part of any thirteen of them, convened for the Service of the said College as above directed. AND WE DO FURTHER for us our Heirs and Successors give and grant unto the said Trustees of the College of New Jersey and their Successors, or the major Part of any thirteen of them, convened for the Service of the College as above directed, full Power and Authority from time to time to nominate and appoint all other inferior Officers and Ministers which they shall think to be convenient and necessary for the Use of the College, not herein particularly named, or mentioned, and which are accustomary in our Universities, or in any of our Colleges in our Realm of Great Britain, which Officers or Ministers we do hereby impower to execute their Offices or Trusts as fully and freely as any other the like officers or Ministers in any of our Universities, or any other College in our Realm of Great Britain lawfully may or ought to do.

AND LASTLY our express Will and Pleasure is, and we do by these Presents for us our Heirs and Successors, give and grant unto the said Trustees of the College of New Jersey, and to their Successors forever, that these our Letters Patent or the Enrollment thereof shall be good and effectual in the Law to all Intents and Purposes, against us our Heirs and Successors, without any other License, Grant or Confirmation, from us our Heirs and Successors hereafter by the said Trustees to be had or obtained; Notwithstanding the not reciting or Misrecital, or not naming or mis-naming of the aforesaid Offices, Franchises, Privileges, Immunities, or other the Premises or any of them, and notwithstanding a Writ of Ad quod Damnum hath not issued

forth to enquire of the premises or anv of them, before the enseal-ing hereof; Any Statute, Act, Ordinance or Provision, or any other Matter or thing to the contrary notwithstanding. TO have hold and enjoy all the singular the Priviliges, Advantages, Liberties, Immunities, and all other the Premises herein and hereby granted and given or which are meant mentioned or intended to be herein and hereby given and granted unto them the said Trustees of the said College of New Jersey and to their Successors forever. IN TESTIMONY whereof We have caused these our Letters to be made Patent. and the Great Seal of our said Province of New Jersey to be hereunto affixed. WITNESS our trusty and well beloved JONATHAN BELCHER Esquire Governor and Commander in Chief of our said Province of New Jersey this fourteenth day of September in the twenty second Year of our Reign, and in the Year of our Lord one thousand seven hundred and forty eight.

I have perused and Considered the within Charter of Incorporation, and find nothing Contained therein Inconsistent with his Majesty's Interest or the Honor of the Crown.

J. WARRELL, *At Genll.*

September ye 13th. 1748.—This charter having been read in Council was consented to and approved of.

CHA. READ, *Cl. Con.*

Lett the Great Seal of the Province of New Jersey be Affixed to this Charter.

J. BELCHER.

To the Secretary of the Province of New Jersey.

This second charter had been sought by the original trustees in order to increase their number, to give other religious communions a share in the administration, and to make the lay trustees equal in number to those who were clergymen. Numerous doubts, besides, had been expressed as to the validity of the first charter, which had been granted by the President of the Council, then acting as governor, and which had never been recorded *verbatim* in the records of the Secretary of State. The interest taken by Governor Belcher in the affairs of the institution and the wise forethought of its founders, by the execution of the second and more comprehensive document, effectually

removed all doubts as to the validity of their powers. After the Revolution this charter was confirmed and renewed by the Legislature of the State of New Jersey.

Upon the granting of the first charter measures had at once been taken to open the College, and on February 2, 1747, a notice appeared in the *New York Gazette Revived in the Weekly Post Boy*, notifying "any Person or Persons who are qualified by preparatory Learning for Admission, that some time in May next at latest they may be there admitted to an Academic Education." On the 20th of April, the following notice was given through the same journal:

> This is to inform the Publick, That the Trustees of the College of New-Jersey, have appointed the Reverend Mr. Jonathan Dickinson, President of the said College; which will be opened the fourth week in May next, at Elizabeth-Town: At which Time and Place, all Persons suitably qualified, may be admitted to an Academic Education.

Hatfield, in his *History of Elizabeth*, states that "the first term of the College of New Jersey was opened at Mr. Dickinson's house, on the south side of the old Rahway road, directly west of Race street." President Dickinson's term of administration was brief, commencing in April, 1747, and closing with his death on October 7, 1747. Upon his decease the Rev. Aaron Burr assumed charge of the College, which was removed from Elizabethtown to Newark. To Mr. Burr belongs the credit for the organization of the curriculum, the ceremonies of the College, and its discipline.

The first Commencement was held at Newark, November 9, 1748, and was celebrated with much ceremony. The *New York Gazette Revived in the Weekly Post Boy* published an account of the proceedings of this Commencement in detail, together with the inaugural address of President Burr, in which address he emphasized broad and

liberal education as the firmest foundation of the Commonwealth, and concluded with a eulogy of the generosity of their patron, Governor Belcher. The graduating class numbered six.

A set of laws for the government of the College, probably prepared by Burr, were adopted by the trustees at this time. One, relating to the admission of students, gives a fair idea of the entrance requirements of the period:

> 1. None may be expected to be admitted into College but such as being examined by the President and Tutors shall be found able to render Virgil and Tully's Orations into English; and to turn English into true and grammatical Latin; and to be so well acquainted with the Greek as to render any part of the four Evangelists in that language into Latin or English; and to give the grammatical connection of the words.

The Trustees also announced "That the annual Commencement for the future be on the last Wednesday of September, and that the next Commencement be held at New Brunswick."

The need of funds being urgent, application was made to the Provincial Assembly for authority to raise by a lottery a sum not exceeding eight thousand dollars; but the request was denied and the lottery was transferred to Philadelphia. Several years later, in 1761–2, the Assembly granted this privilege, as did also the General Court of Connecticut (1753–4).

In casting about for a desirable site for the location of the Institution, the situation of Princeton at once commended itself. Not only was it midway between the cities of New York and Philadelphia and its one street a part of the great highway between them, but it occupied a central position upon rising ground, insuring healthful surroundings, on the line dividing East and West Jersey. New Brunswick, because of its greater size and somewhat similar though not so favorable location,

claimed the first consideration; but the trustees, well aware of the pecuniary value of a college to any town in which it should be placed, were desirous of securing the full advantage accruing from this fact, and voted, September 26, 1750:

That a proposal Be made to the Towns of Brunswick and Prince-Town to try what Sum of Money They can Raise for Building of the College by the next meeting that the trustees may Be Better able to Judge in Which of these places to fix the place of the College.

At the next meeting of the Board, held in Trenton, May 15, 1751, the following resolution was adopted:

Voted that New-Brunswick be ye Place for the Building of the College, provided the Inhabitants of sd. Place agree with the Trustees upon the following Terms, Viz. that they secure to the College a Thousand Pounds proc. Money, ten acres of land contiguous to the College, and two hundred acres of Wood Land, the furthest Part of it not to be more than three Miles distant from the Town; or such a Quantity of Wood Land as the Trustees of the College shall judge Equivalent to two hundred Acres of Wood Land offered to be given by some gentleman in Prince Town.

Mr. Jonathan Sergeant, the Treasurer, was ordered to view the land at Princeton and New Brunswick and report to the Board. The citizens of the latter place do not appear to have been eager to accept the terms imposed by the Board, and, failing to comply by the time allowed, it was voted, September 27, 1752:

That the College be fixed at Princeton upon Condition that the Inhabitants of sd. Place secure to the Trustees that two Hundred Acres of Woodland, and that ten Acres of clear'd Land which Mr. Sergeant view'd; and also one thousand Pounds proc. Money.

This action finally settled the question of location, and, the citizens of the town having complied with the terms

proposed by the Board, steps were at once taken for the erection of the first college building. The plans drawn by Dr. Shippen and Robert Smith were accepted by the trustees. These, according to the Minutes of July 22, 1754, specified "That the College be built of Brick if good Brick can be made at Princeton & if Sand can be got reasonably cheap. That it be three story high & without any Cellar;" but at a subsequent meeting it was decided that stone be used for the College edifice. The land for this building was given by Nathaniel Fitz Randolph, who also donated twenty pounds currency. Ground was broken on the 29th of July, 1754, under the direction of Joseph Morrow, and soon afterward the corner-stone was laid, in the presence of Thomas Leonard, John Stockton, John Horner, William Worth (stone mason), Nathaniel Fitz Randolph, and many others. It was the desire of the trustees to name the new building after the patron and benefactor of the College, Governor Belcher, but with rare modesty he declined the honor, requesting the Board to call the edifice "Nassau Hall," as expressing "the Honour we retain, in this remote Part of the Globe to the immortal Memory of the Glorious King William the 3d., who was a Branch of the illustrious House of NASSAU." This request was complied with in the following terms:

> Whereas his Excellency Govr. Belcher has signified to us, his declining to have the Edifice we have lately erected at Princeton for the Use and Service of New-Jersey College to be called after his Name, and has desired and for Good Reasons that it should be call'd after the Name of the illustrious House of NASSAU; It is therefore voted, and is hereby ordered that the sd. Edifice be in all Time to come called and be known by the Name of NASSAU HALL.

The College was completed and the students removed from Newark to Princeton in the fall of 1756. The expenses incurred consequent upon the erection of so

considerable a building, then the largest structure of its kind in the colonies, had prompted the Board, in 1753, to send the Rev. Gilbert Tennent and the Rev. Samuel Davies to Great Britain to solicit funds in behalf of the Institution. This undertaking was successful, and the money acquired sufficient to defray in part the cost of the building.

The death of President Burr occurred September 24, 1757, and three days later the trustees at their stated meeting elected the Rev. Jonathan Edwards, of Stockbridge, Massachusetts, to fill the vacancy.

President Edwards arrived at Princeton on the 16th of February, 1758, and assumed the duties of his office. One week later he was inoculated for small-pox and died on the 22d of March. On the 9th of May, 1759, the Rev. Samuel Davies was elected to the Presidency and on the 26th of July entered upon the duties of his office. He died February 4, 1761.

During his administration there were no material changes in the course of instruction; more attention, however, was given to the cultivation of English composition and elocution. President Davies gave much of his time to the building up of a suitable library for the College.

The Rev. Samuel Finley had been proposed for the Presidency at the meeting at which Mr. Davies was elected, and upon the death of the latter he was unanimously chosen as his successor. His administration lasted until the 17th of July, 1766, the date of his death. During this period the course of instruction remained the same as in former years, and the College maintained a steady growth.

On the 19th of November, 1766, the trustees elected to the Presidency, John Witherspoon, D.D., LL.D., of Paisley, Scotland. Dr. Witherspoon at first declined; a year later,

however, he accepted a reëlection and became sixth President of the College of New Jersey.

Dr. Witherspoon arrived in America during the summer of 1768 and was inaugurated on the 17th of August. The shadow of the approaching Revolution was already spreading over the Colonies, and among the students of this period (1770), were many who became leading figures in the great struggle and in the solution of the constitutional problem which at the close of the war offered itself to every thoughtful mind. James Madison, Aaron Burr, Gunning Bedford, William Bradford, Philip Freneau, Hugh Henry Brackenridge, Henry Lee, Morgan Lewis, and Henry Brockholst Livingston were some of the pupils over whom Witherspoon was called to preside.

For nearly eight years the varying fortunes of the Revolution told heavily on the College. The course of instruction was interrupted by the presence of both armies, Nassau Hall was wrecked, the library scattered and destroyed, and the philosophical apparatus, including the famous orrery made by David Rittenhouse of Philadelphia, ruined. During this period but one Commencement was omitted, that of 1777. The members of the graduating class of that year, seven in number, received their degrees a few months later and are accounted graduates for that year.

College orders were regularly resumed after the enemy had abandoned their occupation of the State, although, according to President Witherspoon's report, given through the press in 1779, the number of students did not at any time exceed ten.

The impoverished condition of the country consequent upon the war of the Revolution, laid a heavy burden upon the shoulders of the President and trustees. Great credit is due to the perseverance and untiring energy displayed by President Witherspoon throughout his

administration in meeting and overcoming these difficulties. He died November 15, 1794.

His successor, Samuel Stanhope Smith, D.D., LL.D., a graduate of the College in the Class of 1769, was elected to the Presidency May 6, 1795. During his term of office the course of instruction was broadened and the curriculum enlarged. Among the most important changes was the establishment of a professorship in chemistry. This was the first provision for regular instruction in this branch of science made by an American college. A grant of six hundred pounds per annum for three years was secured from the Legislature of the State, to reimburse the College for the damage sustained to its buildings, library, and philosophical apparatus during the Revolution. This appropriation, however, was not equal by a thousand dollars to the expense of repairing the philosophical apparatus.

On the 6th of March, 1802, Nassau Hall was destroyed, save for the outer walls, by fire, together with almost the entire library and part of the philosophical apparatus. Steps were at once taken to raise funds wherewith to repair the loss, and an elaborate address "To the Inhabitants of the United States" was issued by the trustees. In this appeal they were so far successful that by the 4th of April, 1804, more than forty-four thousand dollars had been collected. The rebuilding of Nassau Hall was completed during the summer of 1804.

Dr. Smith resigned the Presidency August 14, 1812, and was succeeded by Ashbel Green, D.D., LL.D., a graduate of the College (1783). Dr. Green tendered his resignation to the trustees September 25, 1822. During this period of ten years the institution maintained a steady growth, both in the number of students and in the income from its invested funds.

On the 26th of September, 1822, the trustees elected

to the Presidency the Rev. John Holt Rice of Richmond, Virginia. Dr. Rice, being in ill-health, declined and the duties of the office for a time devolved upon the Vice-President, Philip Lindsley.

James Carnahan, D.D., LL.D., of the Class of 1806, was elected upon the 12th of May, 1823, and was inaugurated President August 6th of that year. President Carnahan's term of office was one of marked increase in the growth and development of the College. During his administration of thirty-one years, sixteen hundred and thirty-four students were graduated from the Institution; the teaching corps was increased from two professors and two tutors, in 1823, to six professors, two assistant professors, and four tutors in 1854, and not less than seventy-five thousand dollars was expended in the erection of new buildings, the purchase of apparatus and books, and the improvement of the College grounds.

A department of law was established in 1846, under the direction of the Hon. Joseph C. Hornblower, Chief Justice of the Supreme Court of New Jersey, James S. Green, and Richard S. Field, Attorneys. The degree of Bachelor of Laws was given for two years' resident study. There being no funds available for the support of this department, the lectures were abandoned in 1852. During this period the degree of Bachelor of Laws was conferred upon seven persons.

President Carnahan resigned in 1853, but upon the request of the Board retained the office until the Commencement of 1854.

John Maclean, D. D., LL. D., was elected to the Presidency December 20, 1853, and inaugurated Wednesday, June 28, 1854. Dr. Maclean resigned December 11, 1867, retaining the office until the Commencement of 1868. During this period the number of students increased from 247 in 1854, to 281 in 1868. The Civil

War deprived the institution of a large proportion of its students and is largely responsible for the small increase. Four new professorships were established, having a total endowment of $195,000, and the teaching corps increased to twenty. The movement to establish free scholarships in the College, undertaken during the last years of President Carnahan's administration, was successful in obtaining $60,000. The interior of Nassau Hall was destroyed by fire for the second time on the night of the 10th of March, 1855. The damage to the building, the walls alone standing, amounted to above $50,000, upon which there was an insurance of $12,000. The work of rebuilding Nassau Hall was completed during the spring of 1860.

James McCosh, D. D., LL. D., Litt. D., of Queen's College, Belfast, was elected President of the College on the 29th of April, 1868. Dr. McCosh resigned the office in 1888, after an administration of twenty years. Under President McCosh the number of students increased from 281 in 1868, to 603 in 1887. Gifts amounting to upwards of three millions of dollars were contributed during this period, of which one million was expended in the erection of fourteen buildings. Among the more important changes in the curriculum were the introduction of the system of elective studies (1870); the founding of the John C. Green School of Science (1873), offering courses leading to the degree of Bachelor of Science, Civil Engineer, and Master of Science; and the establishment of the Graduate Department (1877). The Faculty was enlarged from ten professors and seven tutors in 1868, to thirty-one professors, four assistant professors, and five tutors and instructors—a total of forty—in 1888.

Francis Landey Patton, D.D., LL.D., twelfth President of the College of New Jersey, was elected February

9, 1888, and inaugurated June 20, 1888. President Patton resigned the office June 9, 1902. During his administration of fourteen years the student enrolment increased from 603 in 1888, to 1354 in 1902. The Faculty numbered forty in 1888; in 1902, one hundred. Seventeen new buildings were erected during President Patton's incumbency.

In October, 1896, the one hundred and fiftieth anniversary of the signing of the First Charter of the College of New Jersey was celebrated; on the anniversary day, October 22, 1896, the title of Princeton University was assumed.

In 1900 a plan for Alumni Representation in the Board of Trustees was adopted. By this plan five trustees were added to the Board, who hold office for five years and are known as "Alumni Trustees"; one trustee is elected yearly.

Woodrow Wilson, Ph.D., Litt.D., LL.D., was elected to the Presidency in June, 1902, and inaugurated on the 25th of October of the same year.

The title of the Corporation as now constituted is The Trustees of Princeton University.

FORM OF BEQUEST

I give and bequeath to the trustees of Princeton University, located at Princeton, in the State of New Jersey, the sum of..... dollars, the same to be free from succession tax, if any should exist thereon, and to be used as the Board of Trustees shall determine (or, in the case of a special gift, stating the terms of the gift).

PART III

TERMS OF ADMISSION

TERMS OF ADMISSION TO PRINCETON UNIVERSITY

ENTRANCE FEE

Each candidate who proposes to take the Princeton Entrance Examination in June should send to the Registrar before June 1st:

1. A statement containing his full name and the name and address of his parent, or guardian, and of his school. If he has taken preliminary examinations, this should be stated.

2. A fee of five dollars, either by money order or cheque payable to *Princeton University*.

In return he will receive a receipt from the Registrar which he must show to the examiner when he registers at the examination.

Candidates who have not sent this statement and fee may be admitted to the examinations; in such cases the reports of the results of the examinations may be delayed, and in no case will a report be sent until the fee is received.

Each candidate who takes his examination in September must pay the fee, unless he has already paid it in June, but those who have paid the fee in June shall be admitted without further payment to the September examinations of the same year. Candidates taking examinations in different years shall pay the fee each year.

Each candidate admitted to any class otherwise than by the regular examinations of the University (*e. g.*, on

certificate of the College Entrance Examination Board) shall pay an admission fee of five dollars.

ENTRANCE EXAMINATIONS

All candidates for examination must report at the designated place half an hour before their first examination begins. Examinations for admission will be written, with supplementary oral examinations if needed.

In June, 1908, the order of examination will be as follows:

Latin, *Thursday, June 11th*, 9 *A. M. to* 1 *P. M.*
Algebra and Plane Geometry, *Thursday, June 11th*, 2 *to* 6 *P. M.*
Greek, *Friday, June 12th*, 8.30 *A. M. to* 12.30 *P. M.*
Trigonometry, *Friday, June 12th*, 8.30 *to* 10.30 *A. M.*
Solid Geometry, *Friday, June 12th*, 10.30 *A. M. to* 12.30 *P. M.*
French, German, Chemistry, Physics, *Friday, June 12th*, 2 *to* 6 *P. M.*
English, *Saturday, June 13th*, 8.30 *to* 10.30 *A. M.*
History, *Saturday, June 13th*, 10.30 *A. M. to* 12.30 *P. M.*

In September, 1908, the same order will be followed, beginning with Latin on Monday, September 14th, at 2 P. M.

All candidates are expected to appear promptly at the time set for an examination. No candidate will be allowed to enter an examination later than an hour after the scheduled time; and no candidate who has seen a question paper will be allowed to leave the examination until an hour and a half shall have elapsed.

Applicants who have any conditions or other deficien-

cies from the June examination are required to remove them at the September entrance examinations.

Simultaneously with the June entrance examinations in Princeton, examinations will also be held in the cities of New York, Philadelphia, Pittsburg, Albany, Buffalo, Chicago, Cincinnati, Cleveland, Denver, Harrisburg, Indianapolis, Kansas City, Louisville, Newark, Omaha, Portland, Ore., St. Louis, St. Paul, San Antonio, Scranton, Syracuse, Washington, Wilkes-Barre, and at such preparatory schools and other cities as the number of candidates or the distance from other places of examination may justify. The places in which the examinations are to be held can be learned by application to the Registrar. No examinations are held outside of Princeton at other than the places and time specified above.

Examinations at other than the specified times are granted only under very exceptional circumstances. An applicant for examination at a special time must present a satisfactory reason and obtain permission by writing to the Registrar and is required to pay into the treasury a fee of $10 for every subject, or part thereof, in which an examination is set. No special examinations are held outside of Princeton.

All candidates for admission to any class, or as special students, must bring with them satisfactory testimonials of good moral character, preferably from their last instructors, and if the candidate has been a member of another college, university, or similar institution, he must produce a certificate from its president or faculty that he is free from censure in that institution.

Each applicant for admission should be provided with a statement, signed by his teacher, as to his fitness to be examined in each of the subjects which he offers. The statement is merely for the information of the examiners, and is

in no sense an admission certificate. Blank forms may be obtained from the Registrar.

No candidate is admitted into the undergraduate department in regular class standing without examination and a vote of the Faculty.

PRELIMINARY EXAMINATIONS

At the examinations in June and September, candidates intending to enter the Freshman class one year later are admitted to examination in a portion of the subjects required for entrance. Certificates as to preparation in the subjects in which the candidate wishes to be examined should be presented.

FRESHMAN ENTRANCE REQUIREMENTS

The following entrance requirements are defined for the most part in close accordance with recommendations of the National Educational Association and of the College Entrance Examination Board. It is recommended that candidates be prepared for examination on the requirements as specified, but equivalents will be accepted. The University will in all cases be the judge of the equivalence of subjects offered as substitutes for the specified requirements.

There are three regular forms of entrance to the courses leading to degrees in Princeton University, *viz.* (1) Entrance for those who offer Greek and are candidates for the degree of A.B. (2) Entrance for those who do not offer Greek and are candidates for the degree of Litt.B. or B.S. (3) Entrance for those who are candidates for the degree of C.E.

The Freshman entrance requirements for candidates for the various degrees given in course in Princeton University are as follows: (The detailed statement of each subject is given on a later page.)

FRESHMAN ENTRANCE REQUIREMENTS FOR THE COURSE LEADING TO THE DEGREE OF A.B.

HISTORY. One and only one of:

1. American History and Civil Government,
2. English History,
3. Ancient History.

GREEK.

1. Greek Grammar,
2. Greek Composition A,
3. Xenophon,
4. Homer A.

LATIN.

1. Latin Grammar,
2. Latin Composition A,
3. Cæsar (four books),
4. Cicero A (six orations),
5. Virgil A (six books),
6. Sallust (Catiline).

ENGLISH.

1. English A (reading),
2. English B (careful study).

MODERN LANGUAGES. One and only one of:

1. French A,
1. German A.

(For maximum requirements leading to advanced standing in French, see French B, and in German, see German B. Any candidate for admission to the course leading to the A.B. degree who passes either French B, or German B, at entrance may elect an advanced course in the subject passed by him, or may begin the other modern language which he did not offer for entrance.)

MATHEMATICS.

1. Algebra to Quadratics, A I,
2. Algebra, Quadratics through the Binomial Theorem, A II,
4. Plane Geometry.

FRESHMAN ENTRANCE REQUIREMENTS FOR THE COURSE LEADING TO THE DEGREES OF LITT.B. AND B.S.

N. B.—The degree of Bachelor of Science (B.S.) is open to those who concentrate in one of the Mathematical or Scientific Departments during the Junior and Senior years, and the degree of Bachelor of Letters (Litt.B.) has been constituted to be open to those who concentrate in one of the Departments in philosophical, political, literary, or other humanistic studies. The entrance requirements for these two degrees are identical.

HISTORY. One and only one of:

1. American History and Civil Government,
2. English History,
3. Ancient History.

LATIN.

1. Latin Grammar,
2. Latin Composition A,
3. Cæsar (four books),
4. Cicero A (six orations),
5. Virgil A (six books),
6. Sallust (Catiline).

ENGLISH.

1. English A (reading),
2. English B (careful study).

MATHEMATICS.

1. Algebra to Quadratics, A I,
2. Algebra, Quadratics through the Binomial Theorem, A II,
4. Plane Geometry,
5. Solid Geometry,
6. Plane Trigonometry.

MODERN LANGUAGES AND SCIENCE. One and only one of the following five combinations:

1. French A and German A,
2. French B and Physics A or B,
3. French B and Chemistry,
4. German B and Physics A or B,
5. German B and Chemistry.

FRESHMAN ENTRANCE REQUIREMENTS FOR THE COURSE LEADING TO THE DEGREE OF C.E.

N. B.—No student will be admitted to the C. E. Freshman year until he has passed in all the mathematical subjects required for entrance.

In 1909, *and thereafter, the requirement for candidates who offer Latin as one of the two languages, (French and German; French and Latin, or German and Latin) required for C.E. Freshman entrance will be increased by the addition of Virgil A (six books), and Sallust (Catiline).*

HISTORY. One and only one of:

1. American History and Civil Government,
2. English History,
3. Ancient History.

ENGLISH.

1. English A (reading),
2. English B (careful study).

FOREIGN LANGUAGES. Any two of the three languages.

Latin (1. Latin Grammar, 2. Latin Composition A, 3. Cæsar, 4. Cicero). (In 1909, Virgil A and Sallust also.)
French (1. French A),
German (1. German A).

MATHEMATICS.

1. Algebra to Quadratics, A I,
2. Algebra, Quadratics through the Binomial Theorem, A II,
4. Plane Geometry,
5. Solid Geometry,
6. Plane Trigonometry.

SCIENCE. One and only one of the two sciences:

Physics A or B,
Chemistry.

[It is recommended that all candidates should receive instruction in freehand drawing before entrance.]

FRESHMAN ENTRANCE SUBJECTS

HISTORY

It is recommended that each of the following courses be pursued in the spirit and by the methods suggested in the Report of the Committee of Seven of the American Historical Association on the Study of History in Schools. (The Macmillan Co., 1899.)

1. *American History and Civil Government.* The course of study recommended for American History and Civil Government should occupy four exercises a week for one year. Military details may be omitted. The origins of the American people and the development of their political life should be clearly understood in their main outlines.

2. *English History.* For the period preceding the Norman invasion a brief outline will suffice. The course of English History after that event down to 1850 should be carefully studied with proper reference to the development of political institutions.

3. *Ancient History.* For the present the requirement will be restricted to Greek History to the death of Alexander the Great, and Roman History to the accession of Commodus. As soon as it appears practicable, notice will be given and the requirement will be extended to comprise "Ancient History, with special reference to Greek and Roman History, and including also a short introductory study of the more ancient nations and the chief events of the Middle Ages down to the death of Charles the Great (814)." It is recommended that instruction in the schools should be extended to comprise Ancient History in the sense above defined.

GREEK

(1, 2, 3, 4 to be offered for A.B. entrance.)

1. *Greek Grammar.* The topics for the examination in Greek Grammar are similar to those detailed under Latin Grammar.

2. *Greek Composition A.* Consisting principally of detached sentences to test the candidate's knowledge of grammatical constructions.

The examination in grammar and prose composition will be based on the first two books of Xenophon's Anabasis.

3. *Xenophon.* The first four books of the Anabasis.

4. *Homer A.* The first three books of the Iliad (omitting II, 494-end).

Greek 5 and 6 are approved substitutes for 4. Candidates desiring papers in these subjects or desiring to offer any other substitute for 4, must notify the Registrar of the University on or before May 1st, preceding the examinations.

5. *Homer B.* The sixth, seventh, and eighth books of the Iliad.

6. *Herodotus.* Selections from the seventh book, sections 1-60 and 172-239.

Papers will be regularly set in Greek 11 and 12. These subjects are not required, nor may they be substituted for any of the specified subjects, but excellence in them will be taken into account in the general estimate of the candidate's Greek papers.

11. *Greek Composition B.* Consisting of continuous prose, based on Xenophon, and other Attic prose of similar difficulty.

12. *Sight Translation.* Based on prose of no greater difficulty than Xenophon's Anabasis.

LATIN

1. *Latin Grammar.* The inflections; the simpler rules for composition and derivation of words; syntax of cases and verbs; structure of the sentence in general, with particular regard to relative and conditional sentences, indirect discourse, and the subjunctive; so much prosody as relates to accent, versification in general, and dactylic hexameter.

2. *Latin Composition A.* Translation into Latin of detached sentences and very easy continuous prose, based upon Cæsar and Cicero.

3. *Cæsar.* Any four books of the Gallic War, preferably the first four.

4. *Cicero A.* Any six orations from the following list, but preferably the first six mentioned.

The four orations against Catiline, Archias, the Manilian Law, Marcellus, Roscius, Milo, Sestius, Ligarius, the Fourteenth Philippic.

5. *Virgil A.* The first six books of the Æneid.

6. *Sallust.* The Catiline.

Papers will be regularly set in Latin 7, which is an approved substitute for 6. Candidates desiring to offer 8, 9, 10, or any other substitute for any part of the specified subjects, 3, 4, 5, or 6, must notify the Registrar of the University on or before May 1st, preceding the examinations.

7. *Ovid.* Twenty-five hundred lines from the Metamorphoses.

8. *Virgil B.* The last six books of the Æneid.

9. *Virgil C.* The Eclogues and Georgics.

10. *Cicero B.* De Amicitia and De Senectute.

Papers will be regularly set in Latin 11 and 12. These subjects are not required, nor may they be substituted for any of the specified subjects, but excellence in them will be taken into account in the general estimate of the candidate's Latin papers.

11. *Latin Composition B.* Consisting of continuous prose of moderate difficulty, based on Cicero.

12. *Sight Translation.* Based exclusively on prose of no greater difficulty than the easier portions of Cicero's orations.

ENGLISH

(Both 1 and 2 to be offered by all candidates.)

The examination will be based upon the books prescribed by the uniform entrance requirements in English. Questions as to the subject matter, structure, and style of these books will be asked. Candidates must be prepared in all of the books required for the year of examination.

For 1908 the books prescribed are:

1. *English A.* For reading, Shakespeare's *The Merchant of Venice* and *Macbeth*, Addison's *Sir Roger de Coverley Papers* in *The Spectator*, Coleridge's *The Ancient Mariner*, Scott's *Ivanhoe* and *The Lady of the Lake*,

Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*, Lowell's *The Vision of Sir Launfal*, George Eliot's *Silas Marner*, Irving's *Life of Goldsmith*.

2. *English B*. For careful study, Shakespeare's *Julius Cæsar*, Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*, Burke's *Speech on Conciliation with America*, Macaulay's *Essays on Samuel Johnson* and *Addison*.

In June and September, 1908, all examinations, preliminary as well as final, will be upon the books assigned for 1908.

For 1909, 1910 and 1911, the books on which the examination in English will be based are chosen from the list recommended by the Conference on Uniform Entrance Requirements in English.

English A. For reading, Shakespeare's *Merchant of Venice* and *Julius Cæsar;* two of the following novels, Scott's *Ivanhoe*, Hawthorne's *The House of the Seven Gables*, Dickens's *A Tale of Two Cities*, George Eliot's *Silas Marner;* six of the following, Chaucer's *Prologue* to the *Canterbury Tales*, *The Sir Roger de Coverley Papers* in the *Spectator*, Franklin's *Autobiography*, Coleridge's *Ancient Mariner*, Scott's *The Lady of the Lake*, Carlyle's *Heroes and Hero-Worship*, Lowell's *The Vision of Sir Launfal*, Tennyson's *Gareth and Lynette*, *Launcelot and Elaine* and *The Passing of Arthur*, Irving's *Sketch Book*.

A candidate may offer, as a substitute for the list given above, any other list which conforms to the requirements recommended by the Conference on Uniform Entrance Requirements in English.

English B. For careful study, Shakespeare's *Macbeth;* Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso;* Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration;* Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

GERMAN

1. *German A.* Candidates should be able to translate at sight a passage of simple German; to put into German short English sentences taken from the language of every-day life or a passage of simple connected prose; and to answer questions upon the rudiments of grammar.

Satisfactory preparation for this examination is furnished in the two-year course in elementary German recommended by the Modern Language Association. The course comprises drill in pronunciation, memorizing easy sentences, the rudiments of grammar with easy exercises illustrating grammatical forms and principles, and the reading of 75 to 100 pages of graduated texts from a reader, followed by 150 to 200 pages of easy stories and plays. It is recommended, however, that not more than one play be read.

2. *German B.* Candidates should be able to translate at sight German prose of ordinary difficulty, whether recent or classical; to put into German a connected passage of ordinary English; and to answer any grammatical questions relating to usual forms and essential principles of the language, including syntax and word-formation.

Satisfactory preparation for this examination is furnished by the intermediate German course of three years recommended by the Modern Language Association. In addition to the preparation suggested for German A this preparation comprises the reading of about 400 pages of moderately difficult prose and poetry, with continued practice in grammar and composition.

FRENCH

1. *French A.* Candidates should be able to translate at sight easy French prose, to put into French simple English sentences, or a passage of easy connected prose, and to answer questions on the rudiments of the grammar.

Satisfactory preparation for this examination is fur-

nished in the two-year course in elementary French recommended by the Modern Language Association. The course comprises drill in pronunciation, the rudiments of grammar, memorizing easy sentences, with easy exercises illustrating grammatical forms and principles, translation into French, writing French from dictation, and the reading of 100 to 175 pages of graduated texts, followed by 250 to 400 pages of easy modern prose in the form of stories, plays, or historical biographical sketches.

2. *French B.* Candidates should be able to translate at sight ordinary French prose or simple poetry, to put into French a connected passage of English prose and to answer questions involving a more thorough knowledge of syntax than is expected in French A.

Satisfactory preparation for this examination is furnished by the intermediate French course of three years recommended by the Modern Language Association. In addition to the course recommended for French A this preparation comprises the reading of from 400 to 600 pages of moderately difficult French, a portion of it to be in the dramatic form, exercise in giving French paraphrases, and continued practice in grammar and composition.

MATHEMATICS

(1, 2, 4 to be offered by all candidates. In addition, 5 and 6 to be offered for Litt.B., B.S., and C.E. entrance.)

In all numerical work special emphasis is laid upon accuracy and facility in reckoning.

In each of the following subjects simple original exercises will be set.

Problems having to do with lengths, areas, or volumes will usually be stated in terms of the metric system of weights and measures.

1. *Algebra to Quadratics, A I.* The four fundamental operations for rational algebraic expressions, factoring,

highest common factor, lowest common multiple, complex fractions, the solution of equations of the first degree containing one or more unknown quantities, radicals including the extraction of the square root of polynomials and numbers, and fractional and negative exponents.

2. *Elementary Algebra, Quadratics through the Binomial Theorem, A II.* Quadratic equations, equations in one or more unknown quantities that can be solved by the methods of quadratic equations, ratio and proportion, the progressions, the elementary treatment of permutations and combinations, the binomial theorem for positive integral exponents, and the use of four, five, and six place logarithms.

4. *Plane Geometry.* Demonstrations of theorems, and constructions and demonstrations of problems; the solution of simple numerical exercises, including lengths of lines and areas of the triangle, parallelogram, trapezoid, regular polygons, and circle; simple original exercises in construction and demonstration.

5. *Solid Geometry.* Properties of straight lines and planes, of dihedral and polyhedral angles, of projections, of polyhedrons (including prisms, parallelepipeds, pyramids and the regular solids), of cylinders, cones, and spheres, of spherical triangles, and the mensuration of these solids and their surfaces.

6. *Plane Trigonometry.* Definitions of the six trigonometric functions as ratios, relations between these six functions, values of the functions for 0°, 30°, 45°, 60°, 90°, 120°, 135°, etc., etc., formulas for the sine, cosine, and tangent of the sum or difference of two angles for all angles, formulas for the sum or difference of two sines or two cosines, expressions for the functions of double and half angles, trigonometric identities and equations, theory of logarithms and the use of trigonometric tables, and the solution of right and oblique plane triangles. A knowledge of the meaning of the circular measure of angles and of the inverse trigonometric functions is also desirable.

PHYSICS

The requirement in elementary physics may be met in either of the two following ways:

1. *Physics A.* By passing an examination on the subject as it is presented in such text-books as Gage's *Principles of Physics.* In this examination much emphasis will be laid upon the student's ability to solve numerical problems.

2. *Physics B.* By presenting a laboratory note-book containing full records of all the experimental work performed by the student during his course of preparation. This note-book must bear the certificate of the instructor that the records were made by the student himself, and that they are a faithful description of the laboratory work actually done by him. The note-book should be paged and properly indexed. The presentation of this note-book will excuse the student from the examination on the general subject, but he will still be examined on the solution of numerical problems as prescribed in A. The metric system will be used exclusively in the examination.

In order to meet requirement A at least one school year, with four or five recitations per week, should be devoted to the subject. This course should be accompanied by class-room demonstrations conducted by the teacher. Requirement B may be met in the same length of time by dividing the time about equally between recitations based on a suitable text-book and laboratory exercises performed by the student himself. While it is desirable that this laboratory work have a large range and accordingly be mainly of a qualitative character, still due stress should be laid upon the performance of exact quantitative work.

CHEMISTRY

1. *Chemistry.* The candidate's preparation should include: (1) The study of a standard text-book, (2) instruction by lecture-table demonstrations, and (3) individual laboratory work, embracing forty exercises selected from

some such work as Smith and Keller's *Experiments for Students in General Chemistry.*

The requirement embraces the sources, preparation, physical and chemical properties of the following elements and their most important compounds: *hydrogen*, *oxygen*, *chlorine*, *nitrogen*, *carbon*, *bromine*, *iodine*, *fluorine*, *sulphur*, phosphorus, arsenic, *silicon*, *potassium*, *sodium*, *calcium*, magnesium, aluminium, *zinc*, *iron*, manganese, *copper*, mercury, silver, *lead*, and tin. Detailed study should be given to the italicized elements and their compounds. Further, candidates should be well posted in matters relating to natural waters, the atmosphere, the laws of chemical combinations by weight and by volume, oxidation and reduction, combustion, nascent state, catalysis, bases, acids, and salts, the nature and structure of flames, precipitation, distillation, crystallization, the elementary gas laws and their applications, the atomic and molecular theories, equation writing, stoichiometrical calculations and valency. They should also have some elementary knowledge of chemical energy, mass action, equilibrium, and the ionic theory.

At the examination each candidate must hand in, along with his paper, a note-book containing a detailed record of the practical work done by him in the laboratory, and this note-book must bear the endorsement of his instructor.

The requirements are intended to be essentially equivalent to those specified in the Plan of Organization of the College Entrance Examination Board of the Middle States and Maryland.

Examination Certificates Issued by the College Entrance Examination Board

will be accepted in place of the regular entrance examinations, in so far as the certificates presented correspond to the requirements of this University. Candidates offering such

certificates are required to submit therewith the testimonials as to character and general fitness prescribed above for other candidates. The latter testimonial shall state definitely the amount of work done in each subject offered for examination.

ADMISSION TO SPECIAL COURSES

In exceptional cases students are admitted to the privileges of the University, not as members of any one of the four regular classes or candidates for a degree, and are allowed to take special undergraduate courses, selected under the direction of the Faculty, in such a manner as to secure so full an employment of their time as in the regular course. Such special students are subject to the same regulations and discipline and to the same examinations in the studies pursued as other undergraduates. Any one desiring to enter as a special student is expected to take the regular entrance examinations upon the subjects prerequisite to his courses and to pass in a sufficient number of subjects to show that he has the same kind of preparation for these courses as is required of regular students. These special courses, however, are not offered to those who attempt to enter the regular course and fail to do so, nor to those who have failed in the regular course.

When special students are finally leaving the University certificates of proficiency, signed by the President and Registrar, may be granted them on report by the Committee on Special Students that they have completed the courses on their schedule.

ADMISSION TO ADVANCED STANDING

Candidates coming from other colleges may apply to enter without examination. Every such applicant shall furnish a certificate of graduation or a letter of honorable dismissal from the college from which he comes, also an

official statement of the courses he has completed and of the quality of his work in these courses. Each case is judged on its merits, and the candidate, if admitted, will be classified as a "special" student, and will be assigned to the courses for which his preparation shall seem to qualify him. If, at the end of two terms of residence in Princeton, his work has been satisfactory, his credits in the college from which he comes will be accepted so far as they are equivalent to courses given at Princeton, and he may be admitted as a regular student, provided that he has satisfied the requirements of a regular course as far as the beginning of the term upon which he is about to enter, or, in case he qualifies for it, receive a degree with the graduating class.

Application blanks may be had from the Registrar.

Candidates for admission to the Sophomore class, who have not completed the studies of the Freshman class at another approved institution, must first pass an examination on the studies required for admission to the Freshman class.

No person is admitted to the University as a candidate for a Bachelor's degree, or for the degree of Civil Engineer, after the beginning of the first term of the Senior year.

REGULATION CONCERNING SECRET SOCIETIES

Immediately after the beginning of the academic year the students entering the Undergraduate Department meet according to announcement for matriculation, and subscription to the following pledge is required by the Board of Trustees:

We, the undersigned, do individually for ourselves promise, without any mental reservation, that we will have no connection whatever with any secret society, nor be present at the meetings of any secret society in this or any other institution so long as we are members of Princeton University, it being understood that this promise has no reference to the American Whig and Cliosophic Societies. We also declare that we regard ourselves bound to keep this promise and on no account whatever to violate it.

PART IV

SYSTEM OF UNDERGRADUATE STUDY

SYSTEM OF UNDERGRADUATE STUDY

The courses of study offered to candidates for a Bachelor's degree extend through four academic years, and lead to the degrees of Bachelor of Arts (A.B.), Bachelor of Letters (Litt.B.), and Bachelor of Science (B.S.). The candidate for a Bachelor's degree enters either the Academic Department or the John C. Green School of Science. The curriculum of the Academic Department leads to the degrees of Bachelor of Arts and Bachelor of Letters; the curriculum of the School of Science to the degrees of Bachelor of Science and Civil Engineer. The degree of Bachelor of Arts (A.B.) is conferred upon those who, entering with Greek, fulfil the full classical requirements of Freshman and Sophomore years; candidates for the degree being free, after the two introductory years, to choose their studies in whatever Department they prefer, whether philosophical, literary, or scientific. The degree of Bachelor of Letters (Litt.B.) is conferred upon those who, having substituted for Greek at entrance either French and German or one of those languages and physics or chemistry, after entrance concentrate their studies in one of the philosophical, literary, political, or other humanistic Departments. The degree of Bachelor of Science is conferred upon those who, entering with a similar substitution for Greek, concentrate their studies after entrance upon one of the mathematical or scientific Departments. The degree of Civil Engineer is conferred upon those who pursue the full course in Civil Engineering, as outlined on succeeding pages.

The schedule of every Sophomore, Junior, and Senior, who is a candidate for a Bachelor's degree, consists of five

courses of three hours a week, subject only to such exemptions as are established for candidates for Special Honors.

The various courses of study offered are open only to students of that year to which the courses belong, except in cases where students are allowed or required to take a course belonging to a preceding year.

THE FRESHMAN YEAR

The course of the Freshman year is composed of sixteen class exercises a week, of which two each week are given to the study of English, four to Latin, and four to mathematics. In addition to the English, Latin, and mathematics, each candidate for the A.B. degree has four exercises devoted to Greek and two exercises devoted to the modern language which he offered at entrance; and each candidate for the Litt.B. or B.S. degree has three exercises a week in the modern language which he has offered at entrance, together with three additional exercises, either in the other modern language (French or German) or in physics, according as he has or has not offered physics for entrance. Candidates offering French B and Physics for admission must elect French 23, 24 and German 11, 12. Those offering French B and Chemistry must elect French 23, 24 and Physics. Candidates offering German B and Physics for admission must elect German 23, 24 and French 11, 12. Those offering German B and Chemistry must elect German 23, 24 and Physics.

THE SOPHOMORE YEAR

The Sophomore courses, required and elective, arranged so as to include elementary courses prerequisite to the subsequent studies of the various departments, are as follows:

SOPHOMORE A.B.—REQUIRED

Physics
Logic (1st term), Psychology (2d term)
Greek (1st term), Latin (2d term)

SOPHOMORE A.B.—ELECTIVE (*Two courses to be taken*)
Latin (1st term), Greek (2d term)
Chemistry
Mathematics
English (1st term), History (2d term)
French (Advanced or Beginners')
German (Advanced or Beginners')

SOPHOMORE B.S. AND LITT.B.—REQUIRED
Physics
Logic (1st term), Psychology (2d term)

SOPHOMORE B.S. AND LITT.B.—ELECTIVE (*Three courses, one of which must be Latin or Mathematics, to be taken*)
Latin
Mathematics
Chemistry
Graphics, if Mathematics is taken
English (1st term), History (2d term)
French (Advanced or Beginners')
German (Advanced or Beginners')

SOPHOMORE HONORS COURSE IN MATHEMATICS AND PHYSICS
A Sophomore electing the Honors Course in Mathematics and Physics takes one less elective course than is required in the regular course, but shall have seven hours a week in Mathematics and Physics.

The student's choice of a Department for Junior and Senior years is largely conditioned by his selection of the electives in the Sophomore year. The Sophomore prerequisite and advised elective courses for the various Departments are as follows:

[PREREQUISITE Sophomore elective courses in small capitals. *Advised* Sophomore elective courses in italics.]

	DEPARTMENT	PREREQUISITE AND ADVISED ELECTIVE COURSES	FOR DEGREE OF
I.	*Philosophy*	*A foreign language*	A.B. & Litt.B.
II.	*History, Politics, and Economics*	HISTORY *A foreign language*	A.B. & Litt.B.

	DEPARTMENT	PREREQUISITE AND ADVISED ELECTIVE COURSES	FOR DEGREE OF
III.	*Art and Archæology*	CLASSICS, through year *A modern language*	A.B.
		LATIN, through year *A modern language*	Litt.B.
IV.	*Classics*	CLASSICS, through year	A.B.
V.	*English*	ENGLISH *A foreign language*	A.B.
		ENGLISH LATIN, through year *A modern language*	Litt.B.
VIa.	*Modern Languages* *Germanic Section*	GERMAN, through year	A.B. & Litt.B.
VIb.	*Modern Languages* *Romanic Section*	FRENCH, through year *Classics*	A.B.
		FRENCH, through year LATIN, through year	Litt.B.
VII.	*Mathematics*	MATHEMATICS, through year	A.B. & B.S.
VIII.	*Physics*	MATHEMATICS, through year *Chemistry*	A.B. & B.S.
VIIA.	*Honors Course in Mathematics and Physics*	HONORS COURSE IN MATHEMATICS AND PHYSICS, through year	A.B. & B.S.
IX.	*Chemistry*	CHEMISTRY, through year *Mathematics* (must be taken here or in Junior year)	A.B. & B.S.
X.	*Geology*	CHEMISTRY, through year *A modern language*	A.B. & B.S.
XI.	*Biology*	CHEMISTRY, through year *A modern language*	A.B. & B.S.

THE JUNIOR YEAR

Each Junior must choose a Department in which to concentrate his studies, and must take all the Junior year courses of that Department, as indicated in the list of Junior

courses, as well as the courses which are there stated to be cognate to that Department. Three of his five courses must, in all cases, be in the Division in which the Department chosen lies, and one course shall be outside of the Division in which this Department lies, the remaining course being left to his free election.

A Junior admitted to the Honors Course in Mathematics and Physics, unless permitted a different choice by the Department, is to select three consecutive courses; i. e., either A. B. C., B. C. D., or C. D. E. In addition each student selects an elective (3 hours) in some other Department than the Department of Mathematics and Physics.

List of Courses of Junior Year

[The numbers prefixed to the courses in the following list refer to the description of those courses on later pages. First term courses have odd numbers; second term courses have even numbers.]

A. Division of Philosophy

I. *Department of Philosophy*
31, 32. History of Philosophy
33. Advanced Psychology. 34. Advanced Logic or Experimental Psychology
(*Advised elective:* 33, 34. Politics)

II. *Department of History, Politics, and Economics*
31, 32. History
33. Jurisprudence. 34. Politics
35, 36. Economics
(*Advised elective:* 31, 32. History of Philosophy)

B. Division of Art and Archæology

III. *Department of Art and Archæology*
31, 32. Art and Archæology
33, 34. Architecture
(*Requisite cognate courses:* A course in Classics through year. A modern language through year)
(*Advised elective:* 31, 32. History of Philosophy)

C. DIVISION OF LANGUAGE AND LITERATURE

IV. *Department of Classics*
31, 32. Greek
33, 34. Latin
(*Advised elective:* 31, 32. History of Philosophy)

V. *Department of English*
31, 32. English Literature
33, 34. English Philology

VIa. *Department of Modern Languages. Germanic Section*
31, 32. German Literature (Opitz to Lessing)
33, 34. German Literature (Goethe)

VIb. *Department of Modern Languages. Romanic Section*
31, 32. French
35, 36. Italian, or 37, 38. Spanish
(*Advised elective:* 33, 34. Latin)

D. DIVISION OF MATHEMATICS AND SCIENCE

VII. *Department of Mathematics*
31, 32. Mathematics
33, 34. Analytical Mechanics

VIIa. *Honors Courses in Mathematics and Physics*
A. A course in pure Mathematics—Geometry
B. A course in Mathematics—Analysis
C. A course in Applied Mathematics—Mechanics
D. A course in Theoretical Physics
E. A course in Experimental Physics

VIII. *Department of Physics*
31, 32. Physics
33, 34. Analytical Mechanics
(*Advised elective:* 31, 32. Mathematics)

IX. *Department of Chemistry*
31*a*, 32*a*. Chemistry
33, 34. Chemistry
(*Requisite cognate course:* 31, 32. Physics)
(The free elective must be the Sophomore Mathematics unless that course has been taken during the Sophomore year)

X. *Department of Geology*
31. Geology, and 32. Structural Geology
33, 34. Mineralogy
(*Requisite cognate courses:* 31*b*, 32*b*. Biology)

XI. *Department of Biology*
31, 32. Biology
33, 34. Botany
(*Requisite cognate course:* Practical Chemistry through year)

The following Junior courses fall under Division D, but are not included in any of the Departments of that Division:

31. Astronomy
32. Geodesy
33. Graphics
34. Graphical Statics
36. Physical Geography

THE SENIOR YEAR

Each Senior must continue his studies in a Department in which he has satisfied the requirements of the Junior year, and must take three courses in that Department as indicated in the list of Senior courses. Or, in case three courses are not thus indicated, three of his courses must, in all cases, be in the Division in which his Department lies.

The schedule of a Senior admitted to the Honors Course in Mathematics and Physics shall consist of three courses selected from the Honors Courses and of an additional elective (3 hours) outside the Departments of Mathematics and Physics. The three Honors Courses may be selected from those of the courses a, b, c, d, e of which the prerequisites have previously been taken, or from those of the courses A, B, C, D, E which have not previously been taken.

List of Courses of Senior Year

A. Division of Philosophy

I. *Department of Philosophy*
- 41, 42. Philosophy
- 43. Experimental Psychology *or* Fundamental Problems of Philosophy
- 45, 46. Ethics

II. *Department of History, Politics, and Economics*
- 41, 42. History
- 43, 44. History
- 45, 46. Politics
- 47, 48. Politics
- 49. Economics
- 51, 52. Roman Law

B. Division of Art and Archæology

III. *Department of Art and Archæology*
- 41, 42. Art and Archæology
- 43, 44. Art and Archæology
- 45. Greek Private Life; 46, Art

C. Division of Language and Literature

IV. *Department of Classics*
- 41, 42. Greek
- 43, 44. Greek
- 45, 46. Latin
- 47, 48. Latin
- 49, 50. Roman Law

V. *Department of English*
- 41, 42. English
- 43, 44. English
- 45, 46. English

VIa. *Department of Modern Languages. Germanic Section*
- 41, 42. German Literature (Nineteenth Century)
- 43, 44. German Literature (Middle High German)

VIb. *Department of Modern Languages. Romanic Section*
- 43, 44. Old French
- Two of the three languages:
  41, 42, French; 45, 46, Italian; 47, 48, Spanish

D. DIVISION OF MATHEMATICS AND SCIENCE

VII. *Department of Mathematics*
- 41, 42. Mathematics
- 43, 44. Mathematics

VIII. *Department of Physics*
- 41, 42. Physics
- 43, 44. Physics

IX. *Department of Chemistry*
- 41, 42. Chemistry
- 43, 44. Chemistry
- 45, 46. Chemistry

X. *Department of Geology*
- 41, 42. Historical Geology
- 43. Structural and Dynamic Geology; 44, Tectonic Geology
- { 45, 46. Invertebrate Palæontology, *or*
  { 47. Mineralogy; 48, Petrology

XI. *Department of Biology*
- 41. Comparative Anatomy of Vertebrates; 42, Embryology
- 43. Biology; 44, Palæontology
- 45. Osteology; 46, Histology

Senior courses which are not in any one of the eleven Departments above:

- 41, 42. Sanskrit (*falls in Division C*)
- 43, 44. Practical Astronomy (*falls in Division D*)
- 45, 46. Theory of Prime Motors (*falls in Division D*)
- 43, 44. Biblical Literature (*falls in Division C*)
- 42. History of Natural Philosophy (*falls in Divisions A and D*)
- 48. History of Astronomy (*falls in Division D*)

THE PRO-SEMINARIES

A pro-seminary will be established in some Departments for Seniors who are candidates for Final Special Honors (see later page). Each pro-seminary will be in charge of a Director, who shall conduct a session of the pro-seminary at least one hour each week during the term or year.

The Director shall have charge of the admission and assignment of qualified Seniors and of the work of the pro-seminary generally. In case the pro-seminary is divided into sections, each section shall be conducted by an instructor, but the Director shall have general oversight of the pro-seminary, preside at the joint sessions of the sections, and conduct the sessions of one section.

The sessions of each pro-seminary will be devoted to the presentation and discussion of work prepared by the individual members of the pro-seminary.

TABLES SHOWING THE DEPARTMENTS IN DETAIL

A. DIVISION OF PHILOSOPHY

I. DEPARTMENT OF PHILOSOPHY

Open to candidates for the degrees of A.B. and Litt.B.

Advised Sophomore Elective

A foreign language

Junior Courses

31, 32. Philosophy (H)
33. Psychology (H), and 34*a*. Logic (H), or 34*b*. Psychology
A course from Division A (33, 34. Politics *advised*)
A course not in Division A
An elective

Senior Courses

41, 42. Philosophy
43*a*. Psychology, or 43*b*. Philosophy, and 44. Philosophy
45, 46. Ethics
An elective
An elective

II. DEPARTMENT OF HISTORY, POLITICS, AND ECONOMICS

Open to candidates for the degrees of A.B. and Litt.B.

Prerequisite Sophomore Course

History

Advised Sophomore Elective

A foreign language

Junior Courses

31, 32. History (H)
33, 34. Politics (H)
35, 36. Economics (H)
A course not in Division A
An elective (31, 32. History of Philosophy *advised*)

Senior Courses

{ Three courses in History, Politics, and Economics
An elective
An elective

B. DIVISION OF ART AND ARCHÆOLOGY

III. Department of Art and Archæology

Open to candidates for the degrees of A.B. and Litt.B.

Prerequisite Sophomore Courses

Elective Classics through the year for A.B.
Latin through the year for Litt.B.

Advised Sophomore Elective

A modern language

Junior Courses

31, 32. Archæology (H)
33, 34. Architecture (H)
A course in Classics (H) through the year
A modern language through the year
A course not in Division B (History of Philosophy *advised*)

Senior Courses

41, 42. Art
43, 44. Architecture
45, Archæology, and 46. Art
An elective
An elective

C. DIVISION OF LANGUAGES AND LITERATURE

IV. Department of Classics

Open to candidates for the degree of A.B.

Prerequisite Sophomore Course

Elective Classics through the year

Junior Courses

31, 32. Greek (H)
33, 34. Latin (H)
A course from Division C
A course not in Division C (History of Philosophy *advised*)
An elective

Senior Courses

Three courses in Latin and Greek
An elective
An elective

V. Department of English

Open to candidates for the degrees of A.B. and Litt.B.

Prerequisite Sophomore Courses

English for A.B.
Latin through the year and English } for Litt.B.

Advised Sophomore Electives

A foreign language for A.B.
A modern language for Litt.B.

Junior Courses

31, 32. English Literature (H)
33, 34. English Philology (H)
A course from Division C
A course not in Division C
An elective

Senior Courses

41, 42. English Literature
43, 44. English Literature
45, 46. English Philology
An elective
An elective

VIa. DEPARTMENT OF MODERN LANGUAGES. GERMANIC SECTION

Open to candidates for the degrees of A.B. and Litt.B.

Prerequisite Sophomore Course

German through the year

Junior Courses

31, 32. German Literature (H)
33, 34. German Literature (Goethe) (H)
A course from Division C
A course not in Division C
An elective

Senior Courses

41, 42. German Literature
43, 44. Middle High German
A course from Division C
An elective
An elective

VIb. DEPARTMENT OF MODERN LANGUAGES. ROMANIC SECTION

Open to candidates for the degrees of A.B. and Litt.B.

Prerequisite Sophomore Courses

French through the year for A.B. and Litt.B.
Latin through the year for Litt.B.

Advised Sophomore Elective

Elective Classics for A.B.

Junior Courses

31, 32. French Literature (H)
35, 36. Italian (H), or 37, 38. Spanish (H)
A course from Division C (Latin *advised*)
A course not in Division C
An elective

Senior Courses

43, 44. Romanic Philology
{ Two of the three languages:
{ 41, 42. French, 45, 46. Italian, 47, 48. Spanish
An elective
An elective

D. DIVISION OF MATHEMATICS AND SCIENCE

VII. Department of Mathematics

Open to candidates for the degrees of A.B. and B.S.

Candidates for Honors in Mathematics and Physics take the Honors Courses outlined on the next page

Prerequisite Sophomore Course

21, 22. Mathematics

Junior Courses

31, 32. Mathematics
33, 34. Analytical Mechanics
A course from Division D
A course not in Division D
An elective

Senior Courses

41, 42. Mathematics
43, 44. Mathematics
A course from Division D
An elective
An elective

VIII. Department of Physics

Open to candidates for the degrees of A.B. and B.S.

Candidates for Honors in Mathematics and Physics take the Honors Courses outlined on the next page

Prerequisite Sophomore Course

21, 22. Mathematics

Advised Sophomore Elective

Chemistry

Junior Courses

31, 32. Experimental Physics
33, 34. Analytical Mechanics
A course from Division D (31, 32. Mathematics *advised*)
A course not in Division D
An elective

Senior Courses

41, 42. Physics
43, 44. Physics
A course from Division D
An elective
An elective

VIIA. Honors Courses in Mathematics and Physics

Open to candidates for the degrees of A.B. and B.S.

Prerequisite Sophomore Course

25, 26. Honors course in Mathematics
Honors course in Physics

Junior Courses

A. A course in pure Mathematics—Geometry
B. A course in Mathematics—Analysis
C. A course in Applied Mathematics—Mechanics
D. A course in Theoretical Physics
E. A course in Experimental Physics
(Of these, three consecutive courses are to be taken, unless permitted a different choice by the Department)
A course not in the Department of Mathematics and Physics

Senior Courses

a. A course in pure Mathematics
b. A course in Analysis
c. A course in Applied Mathematics—Electricity and Magnetism
d. A course in Theoretical Physics
e. A course in Experimental Physics
(Three courses are to be taken, selected from those of this list, of which the prerequisite courses of Junior year have been taken, or from the honors courses of Junior year which have not previously been taken.)
A course not in the Department of Mathematics and Physics

IX. Department of Chemistry

Open to candidates for the degrees of A.B. and B.S.

Prerequisite Sophomore Courses

Chemistry through the year
21, 22. Mathematics (may be taken in Junior year)

Junior Courses

31*a*; 32*a*. Chemistry (H)
33, 34. Chemistry (H)
31, 32. Physics
A course not in Division D
An elective (must be 21, 22. Mathematics, unless that course has been taken in Sophomore year)

Senior Courses

41, 42. Chemistry
43, 44. Chemistry
45, 46. Chemistry
An elective
An elective

X. Department of Geology

Open to candidates for the degrees of A.B. and B.S.

Prerequisite Sophomore Course

Chemistry through the year

Advised Sophomore Elective

A modern language

Junior Courses

31, 32. Geology (H)
33, 34. Mineralogy (H)
31, 32. Biology
A course not in Division D
An elective

Senior Courses

41, 42. Geology
43, 44. Geology
45, 46. Palæontology, or 47, 48. Mineralogy
An elective
An elective

XI. Department of Biology

Open to candidates for the degrees of A.B. and B.S.

Prerequisite Sophomore Course

Chemistry through the year

Advised Sophomore Elective

A modern language

Junior Courses

31, 32. Biology (H)
33, 34. Botany (H)
Practical Chemistry 31*b*, 32*b*, through the year
A course not in Division D
An elective

Senior Courses

41, 42. Biology
43. Histology, and 44. Palæontology
45, 46. Biology
An elective
An elective

In the above statements of the Departments the courses in the Junior year which are marked with (H) are the courses central to the Department in which a Junior must maintain a standing not below the second group in order to be a candidate for Final Special Honors.

DEPARTMENT OF CIVIL ENGINEERING

The Course of Study

The course in civil engineering is designed to fit its graduates for entering the profession of civil engineering. The degree conferred at its close on successful candidates is Civil Engineer (C. E.). The regular course of study occupies four years, but applicants who are found to be suitably prepared are admitted to advanced standing. Bachelors of Arts, of Letters, or of Science of Princeton University, who, while undergraduates, have pursued suitable elective studies can ordinarily be prepared for the civil engineer's degree by a two-years' course in the technical studies required for that degree.

In arranging the course in civil engineering care has been taken to give the student the benefit of as much general training in the earlier years as the claims upon his time made by his later technical studies will permit. Accordingly, a large proportion of his time in the Freshman and Sophomore years is devoted to studies which are pursued in common with candidates for the Bachelors' degrees.

A very large proportion of the strictly technical studies of the course cannot be profitably pursued without a thorough previous preparation in mathematics; especial attention is therefore given in the earlier part of the course to imparting to the students in civil engineering a sound working knowledge of the ordinary divisions of that science, inclusive of analytical mechanics, and a high degree of proficiency therein is exacted from all candidates for the degree of C. E.

Great stress is also laid in this course on the study of graphics as a science as well as an art, both in its general development and in its application to the practice of designers and builders. For convenience, it has been separated into two distinct divisions, *viz.*:

A. Defined in detail under the courses entitled Graphics (under Department of Civil Engineering, on a later page), and comprising all branches of the study, including descriptive geometry and its applications, which are usually grouped under the general heading, geometrical or mechanical drawing. At its conclusion the student will have been trained to execute general and working drawings of structures, to prepare patterns or templates for the shaping of structural details, to make working and finished drawings of machines, and to trace graphically and lay out mechanical movements, such as link-and-valve motions, etc.

B. Defined in detail in the courses entitled Geodesy (under Department of Civil Engineering, on a later page), and consisting of those branches of the art which are closely associated with surveying, and generally known as map drawing or topographical drawing, the object of which is to make the student expert in the execution, in pen work and colors, of finished plans and maps of various kinds of surveys. Except in the necessary preliminary drill these drawings invariably represent actual surveys made by the different classes. A rigid adherence to field notes and a high degree of finish are exacted in their execution.

The study of surveying and engineering field work is provided for in the different subdivisions of the course of study in geodesy (see courses in geodesy, under Department of Civil Engineering, on a later page). The structure, adjustment, and use of each instrument are made subjects of special attention, and no student is allowed to participate in any extended field operation until he has acquired a certain dexterity in handling the instruments used therein. The instruction in geodesy extends through different kinds of surveys, in the order of their complexity, and ends in location surveys of lines of communication, staking out for construction in general, and problems of railway terminals and yard-work. A special feature of the course in geodesy

is the stress laid on the orderly collection and verification of field notes by each student, and on their appropriate use in the preparation of different kinds of plans, maps, and charts of surveys. No error is allowed in field work or in plotting which is not within the limits observed in practice.

During the two weeks immediately following the close of the second term of the Junior year, the Junior class in civil engineering engages in the field work of extended surveys in some locality selected by the Professor of Geodesy. All regular members of the class are required to attend these exercises.

The remaining strictly technical studies of the course in civil engineering, given by name on succeeding pages, may be grouped under the headings: applied mechanics, constructions, and laboratory practice.

The first group covers a wide range of studies comprising graphical statics, theoretical and practical hydraulics, the elasticity and strength of materials, the stability and pressures of earthen masses and of foundations, the stability of block structures and of steel-concrete structures, the strength of girders and of framed structures, the theory of the draw bridge, the suspension bridge, the cantilever bridge, and of metallic arches, the general theory of motors, and the theory of water wheels, of steam engines, and gas engines. In dealing with the theories of these subjects rigid mathematical treatment is generally used, yet proper weight is given to graphical methods of analysis and the student's attention is especially directed to those problems in which such methods can be employed with advantage. The practical application of the above subjects also receives proper attention and is illustrated in some cases by drawings, in others by models, and in others by prescribed exercises in the Civil Engineering Laboratory.

The second group, namely constructions, comprises those technical studies which are largely descriptive of the

planning and construction of engineering works. These subjects begin with the study of the physical properties of structural materials, with the aid of laboratory exercises, and advance to the study of the design and construction of foundations under various conditions of difficulty; to the erection of bridges and other structures, and the consideration of the auxiliaries needed therefor; to the planning and construction of water works under different conditions as to kind and quality of supply; the design and construction of sewerage and drainage systems, including modes of disposal and purification of sewage; and the construction of roads, streets, etc. Great stress is laid on the application of correct rules and principles, on the careful inspection, manipulation, and preservation of materials, and on the economic features of various designs and the modes of executing them.

An important feature of this part of the course consists of excursions for the examination of rolling mills, bridge works, machine shops, water works, etc. In these visits the class is accompanied by one of the professors in charge, and every member of the party is required to make full notes of his observations and of the instruction received during the trip.

The position of the third group of exercises, namely laboratory practice, in the course of study, as well as its purpose, will be inferred from the preceding explanations. (See also Civil Engineering Laboratory, on a later page.)

As one of the conditions of being recommended for the degree of Civil Engineer each candidate for the degree is required to prepare and submit for the approval of a professor, appointed in each case by the Department, a graduation thesis. This shall be a design or review of some structure, machine, or process, or a theoretical and practical examination and extension of some work or subject selected from the technical studies of the Department.

The subject of the graduation thesis must be announced for approval to the professors of the Department, not later than the first Monday in March (second term, Senior year); and the thesis must be completed on or before the second Saturday preceding Commencement.

The following is a synopsis of the course in civil engineering. *All studies are required.*

The Freshman Year

First Term	Hours a week	*Second Term*	Hours a week
English	2	English	2
Two of the three subjects, Physics, French, and German	6	Two of the three subjects, Physics, French, and German	6
Mathematics	4	Mathematics	4
Chemistry	3	Chemistry	3
Graphics	2	Geodesy	2
Total	17	Total	17

The Sophomore Year

First Term	Hours a week	*Second Term*	Hours a week
General Physics	3	General Physics	3
Mathematics	3	Mathematics	3
Mathematics	2	Mathematics	2
Mineralogy	3	Geology	3
Graphics	3	Graphics	3
Geodesy	3	Geodesy	3
Total	17	Total	17

The Junior Year

First Term	Hours a week	*Second Term*	Hours a week
Analytical Mechanics	3	Analytical Mechanics	3
General Astronomy	3	Practical Astronomy	2
Graphical Statics	3	Mechanics of Materials	4
Geodesy	4	Geodesy	5
Graphics	2	Graphics	3
Materials of Construction	2		
Total	17	Total	17

The Senior Year

First Term	Hours a week	*Second Term*	Hours a week
Framed Structures	5	Framed Structures	3
Prime Motors	3	Prime Motors	3
Hydraulics	2	Water Works	2
Graphics	2	Sewerage and Drainage	2
Geodesy	3	Roads	2
Laboratory	2	Masonry Structures	2
		Methods of Construction	2
		Laboratory	1
Total	17	Total	17

PART V

DEPARTMENTS OF THE UNIVERSITY

ACADEMIC DEPARTMENT

FACULTY

WOODROW WILSON, PH.D., LITT.D., LL.D., *President, McCormick Professor of Jurisprudence and Politics.*

FRANCIS LANDEY PATTON, D.D., LL.D., *Ex-President, Stuart Professor of Ethics and the Philosophy of Religion.*

HENRY BURCHARD FINE, PH.D., *Dean of the Faculty.*

ANDREW FLEMING WEST, PH.D., LL.D., HON. D.LITT. (Oxon.), *Dean of the Graduate School, Giger Professor of Latin.*

THEODORE WHITEFIELD HUNT, PH.D., L.H.D., *Professor of English.*

SAMUEL ROSS WINANS, PH.D., *Professor of Greek and Instructor in Sanskrit.*

ALLAN MARQUAND, PH.D., L.H.D., *Professor of Art and Archæology.*

ALEXANDER THOMAS ORMOND, PH.D., LL.D., *McCosh Professor of Philosophy.*

JOHN HOWELL WESTCOTT, PH.D., *Musgrave Professor of Latin and Tutor in Roman Law.*

GEORGE MCLEAN HARPER, PH.D., *Holmes Professor of Belles Lettres and English Language and Literature.*

WINTHROP MORE DANIELS, A.M., *Professor of Political Economy.*

JOHN GRIER HIBBEN, PH.D., *Stuart Professor of Logic.*

PAUL VAN DYKE, D.D., *Professor of History.*

HENRY VAN DYKE, D.D., LL.D., *Murray Professor of English Literature.*

GEORGE STEVENSON PATTON, A.M., *Professor of Moral Philosophy.*

HOWARD CROSBY WARREN, A.M., *Professor of Experimental Psychology.*

THOMAS MARC PARROTT, PH.D., *Professor of English.*

EDMUND YARD ROBBINS, A.M., *Professor of Greek.*

HARRY AUGUSTUS GARFIELD, A.B., *Professor of Politics.*

WILLIAMSON UPDIKE VREELAND, D. ÈS L., *Professor of Romance Languages.*

STOCKTON AXSON, A.M., *Professor of English.*
JOHN HAUGHTON CONEY, A.M., *Professor of History.*
WILLIAM KELLY PRENTICE, PH.D., *Professor of Greek.*
HOWARD CROSBY BUTLER, A.M., *Professor of Art and Archæology.*
NORMAN SMITH, A. M., *Stuart Professor of Psychology.*
DUANE REED STUART, PH.D., *Professor of Classics.*
CHRISTIAN GAUSS, A.M., *Professor of Modern Languages.*
EDWARD CAPPS, PH.D., *Professor of Classics.*
JOHN PRESTON HOSKINS, PH.D., *Assistant Professor of German.*
WALTER AUGUSTUS WYCKOFF, A.M., *Assistant Professor of Political Economy.*
HARRY FRANKLIN COVINGTON, A.M., *Assistant Professor of English.*
ROBERT MCNUTT MCELROY, PH.D., *Clerk of the Academic Faculty, Assistant Professor of American History.*
MAX FRIEDRICH BLAU, PH.D., *Assistant Professor of German.*
LUCIUS HOPKINS MILLER, A.M., *Assistant Professor of Biblical Instruction.*
ROGER BRUCE CASH JOHNSON, PH.D., *Earl Dodge Preceptor in Philosophy.*
ADAM LEROY JONES, PH.D., *Preceptor in Philosophy.*
WALTER TAYLOR MARVIN, PH.D., *Preceptor in Philosophy.*
WILMON HENRY SHELDON, PH.D., *Preceptor in Philosophy.*
EDWARD GLEASON SPAULDING, PH.D., *Preceptor in Philosophy.*
WALTER MAXWELL ADRIANCE, A.M., *Preceptor in History, Politics, and Economics.*
ERNEST LUDLOW BOGART, PH.D., *Preceptor in History, Politics, and Economics.*
EDWARD SAMUEL CORWIN, PH.D., *Preceptor in History, Politics, and Economics.*
EDGAR DAWSON, PH.D., *Preceptor in History, Politics, and Economics.*
EDWARD GRAHAM ELLIOTT, PH.D., *Robert Stockton Pyne Preceptor in History, Politics, and Economics.*
CHARLES HOWARD MCILWAIN, A.M., *Robert Stockton Pyne Preceptor in History, Politics, and Economics.*
ROYAL MEEKER, PH.D., *Preceptor in History, Politics, and Economics.*
WILLIAM STARR MYERS, PH.D., *Preceptor in History, Politics, and Economics.*
HENRY ROBINSON SHIPMAN, PH.D., *Preceptor in History, Politics, and Economics.*

CHARLES WORTHEN SPENCER, PH.D., *Preceptor in History, Politics, and Economics.*
CHARLES RUFUS MOREY, A.M., *Preceptor in Art and Archæology.*
OLIVER SAMUEL TONKS, PH.D., *Preceptor in Art and Archæology.*
ANDREW RUNNI ANDERSON, PH.D., *Preceptor in Classics.*
JOHN WILLIAM BASORE, PH.D., *Preceptor in Classics.*
DONALD CAMERON, PH.D., *Preceptor in Classics.*
HAROLD RIPLEY HASTINGS, A.M., *Preceptor in Classics.*
GEORGE DWIGHT KELLOGG, PH.D., *Preceptor in Classics.*
DONALD ALEXANDER MACRAE, PH.D., *Preceptor in Classics.*
DAVID MAGIE, JR., PH.D., *William Alfred Packard Preceptor in Classics.*
EDWIN MOORE RANKIN, PH.D., *Preceptor in Classics.*
LARUE VAN HOOK, PH.D., *Preceptor in Classics.*
LEROY CARR BARRETT, PH.D., *Preceptor in Classics.*
AUSTIN MORRIS HARMON, A.M., *Preceptor in Classics.*
HARDIN CRAIG, PH.D., *Edgerstoune Preceptor in English.*
MORRIS WILLIAM CROLL, PH.D., *Preceptor in English.*
GORDON HALL GEROULD, B.LITT., *John Rutherfurd Preceptor in English.*
NATHANIEL EDWARD GRIFFIN, PH.D., *Preceptor in English.*
AUGUSTUS WHITE LONG, A.M., *Preceptor in English.*
FRANCIS CHARLES MACDONALD, A.B., *Preceptor in English.*
LOUIS WARDLAW MILES, PH.D., *Preceptor in English.*
CHARLES GROSVENOR OSGOOD, JR., PH.D., *Preceptor in English.*
ROBERT KILBURN ROOT, PH.D., *Preceptor in English.*
JOHN DUNCAN SPAETH, PH.D., *Preceptor in English.*
JACOB NEWTON BEAM, PH.D., *Preceptor in Modern Languages.*
DOUGLAS LABAREE BUFFUM, PH.D., *Preceptor in Modern Languages.*
VARNUM LANSING COLLINS, A.M., *Preceptor in Modern Languages.*
FRANK LINLEY CRITCHLOW, PH.D., *Preceptor in Modern Languages.*
WILLIAM KOREN, A.M., *Preceptor in Modern Languages.*
ALFRED AUSTIN MOORE, A.B., *Preceptor in Modern Languages.*
GEORGE TYLER NORTHUP, A.B., *Preceptor in Modern Languages.*
GEORGE MADISON PRIEST, A.M., *Preceptor in Modern Languages.*
HARVEY WATERMAN THAYER, PH.D., *Preceptor in Modern Languages.*
RÉGIS MICHAUD, Licencié ès lettres, Sorbonne, *Preceptor in Modern Languages.*

INSTRUCTORS

GEORGE WASHINGTON TAPLEY WHITNEY, PH.D., *Instructor in Philosophy.*

PHILIP HOWARD FOGEL, PH.D., *Instructor in Philosophy.*

CLEMENT LESLIE VAUGHAN, PH.D., *Demonstrator in Psychology.*

BENJAMIN MARSDEN PRICE, B.C.L., *Instructor in Jurisprudence and Politics.*

WALTER LINCOLN WHITTLESEY, A.B., *Instructor in History, Politics, and Economics.*

EDWIN WILLIAM PAHLOW, A.M., *Instructor in History, Politics, and Economics.*

IVORY VICTOR ILES, A.M., *Instructor in History, Politics and Economics.*

WILLIAM ALEXANDER FLEET, A.M., *Instructor in Classics.*

HERBERT PIERPONT HOUGHTON, PH.D., *Instructor in Classics.*

PAUL NIXON, A.M., *Instructor in Classics.*

HARRY BROWN VAN DEVENTER, A.B., *Instructor in Classics.*

GEORGE DOBBIN BROWN, PH.D., *Instructor in English.*

MAXWELL STRUTHERS BURT, A.B., *Instructor in English.*

HERBERT SPENCER MURCH, PH.D., *Instructor in English.*

WILLIAM HARRY CLEMONS, A.M., *Instructor in English.*

CHARLES EDWARD LYON, PH.D., *Instructor in Modern Languages.*

CHARLES EUGLEY MATHEWS, A.B., *Instructor in Modern Languages.*

ALFRED ERNEST RICHARDS, PH.D., *Instructor in Modern Languages.*

SIGMUND GOTTFRIED SPAETH, A.M., *Instructor in Modern Languages.*

DONALD CLIVE STUART, A.M., *Instructor in Modern Languages.*

COURSES OF INSTRUCTION

A. DIVISION OF PHILOSOPHY

I. DEPARTMENT OF PHILOSOPHY

EX-PRESIDENT PATTON, PROFESSORS ORMOND, HIBBEN, G. S. PATTON, WARREN, NORMAN SMITH, JOHNSON, JONES, MARVIN, SHELDON, AND SPAULDING; DRS. FOGEL, VAUGHAN, AND WHITNEY

21. Logic. Hibben: *Logic.* Sophomore required course, first term, 3 hours a week. Professor Hibben.
22. Psychology. Sophomore required course, second term, 3 hours a week. Professor Norman Smith.
31. History of Philosophy. This course includes, (1) Greek and Roman philosophy to close of pagan schools. (2) Medieval philosophy to fall of scholasticism and beginning of the modern era. Zeller: *Outlines;* Erdmann; Windelband. Junior course, first term, 3 hours a week. Prerequisite to History of Philosophy of second term, and Epistemology and Metaphysics of Senior year. Professor Ormond.
32. History of Philosophy. This course includes, (1) Modern philosophy from Descartes to Kant, (2) Post-Kantian philosophy. Falckenberg: *History of Modern Philosophy.* Junior course, second term, 3 hours a week. Prerequisite course: History of Philosophy of first term. Prerequisite to Epistemology and Metaphysics. Professor Ormond.

33. Advanced Psychology. Junior course, first term, 3 hours a week. Professor Norman Smith.

34*a*. Advanced Logic. The Logic of Scientific Method. Junior course, second term, 3 hours a week. Exclusive with 34*b*. Professor Hibben.

34*b*. Experimental Psychology. Scope and methods of experimental investigation of mental processes. Psycho-physical methods; analysis of sensation, with study of the common senses; contrast, sensory fatigue, habit, etc. Lectures and work in the laboratory. Sanford: *Course in Experimental Psychology.* Titchener: *Experimental Psychology.* Junior course, second term, 3 hours a week. Exclusive with 34*a*. Prerequisite to 43*a*. Professor Warren.

41, 42. Outlines of Philosophy. This course includes, (1) Epistemology or doctrine of knowledge, (2) Metaphysics or theory of reality. Ormond: *Foundations of Knowledge;* McCosh: *First and Fundamental Truths.* Selections from Kant. Senior course, both terms, 3 hours a week. Prerequisite course: History of Philosophy. Professor Ormond.

43*a*. Experimental Psychology. Continuation of 34*b*. The special senses; space perception and visual illusions; memory, association, and thought; feeling and its measure; reaction and general psychology of movement. Lectures and work in the Laboratory. Titchener: *Experimental Psychology.* Sanford: *Course in Experimental Psychology.* Senior course, first term, 3 hours a week. Exclusive with 43*b*. Professor Warren.

43*b*. Fundamental Problems of Philosophy. Senior course, first term, 3 hours a week. Exclusive with 43*a*. Professor Norman Smith.

44. Philosophy of the Eighteenth Century. Development of philosophical thought from Locke to Kant,

covering the Aufklärung in England, France, Germany. Senior course, second term, 3 hours a week. Professor Hibben.

45. Types of Ethical Theory. Lectures on the history of ethics and types of ethical theory with collateral reading. Senior course, first term, 3 hours a week. Prerequisite to course 46. Professor George S. Patton.

46. Fundamental Ethical Concepts. Lectures and collateral reading. Senior course, second term, 3 hours a week. Ex-President Patton and Professor George S. Patton.

THE PRO-SEMINARY IN PHILOSOPHY. In charge of Professor Ormond. Reading of masterpieces in modern philosophy with theses. Professor Ormond.

Experimental Psychology. Practical demonstrations in the laboratory of typical experimental investigations, with drill in the methods of calculating and treating results. Sanford: *Course in Experimental Psychology;* Titchener: *Experimental Psychology.* Reference books: Wundt, Külpe, Jastrow, Stratton, Witmer, Scripture. Pro-seminary for students in the psychological laboratory. Prerequisite course: Experimental Psychology, Calculus (advised). Prerequisite to the graduate work in the psychological laboratory. Professor Warren.

---

101. Theories of Knowledge in modern Philosophy. Historical and Critical. Graduate course, first term, 3 hours a week. (Given in 1908–1909.) Professor Ormond.

102. Causation and Purpose in Science and Philosophy.

Graduate course, second term, 3 hours a week. Lectures and readings. (Given in 1908–1909.) Professor Ormond.

103, 104. The Philosophy of Kant. Graduate course, both terms, 3 hours a week. Readings and discussions. Professor Norman Smith.

105, 106. Experimental Psychology. Laboratory course, consisting largely in research work, with weekly conference for original reports. Graduate course, both terms, 3 hours a week. Professor Warren.

107, 108. Seminary in General Philosophy. Topic for the year: Hobbes and Spinoza. Conducted by reading, theses, and discussions. Graduate course, both terms. Professor Ormond.

109, 110. Psychological Seminary. Conducted by reading, theses, and discussions. Topic to be determined in consultation with class; open to graduate students in philosophy and psychology. Graduate course, both terms. Professor Warren or Professor Norman Smith.

111. Theory of Mental Measurements. Graduate course, first term, 3 hours a week. Professor Warren.

113, 114. Reading in German Philosophy. Graduate course, both terms, 3 hours a week. Hegel's *Logik*. Professor Hibben.

115, I. Hedonism and the Ethics of Naturalism. Graduate course, first term, 3 hours a week. Professor G. S. Patton.

116, I. Self-realization and the Ethics of Idealism. Graduate course, second term, 3 hours a week. Professor G. S. Patton.

115, II. History of English Ethics. Graduate course, first term, 3 hours a week. Professor G. S. Patton.

117, 118. Aesthetics. A systematic study of the principal problems of aesthetics based upon a critical exam-

ination of the classical works on the subject and including a detailed study of recent tendencies and recent contributions. Graduate course, both terms, 3 hours a week. Professor A. L. Jones.

119, 120. The Philosophy of Evolution. In this course the purpose is to consider the philosophical problems involved in both the biological and psychological aspects of ontogenetic and phyletic development. Graduate course, both terms, 3 hours a week. Professor Spaulding.

121. The Nature of Judgment. This course will present the nature of judgment in its philosophical, logical, psychological, and linguistic aspects, aiming to acquaint the student with the standard literature of the subject. Lectures and reading. Graduate course, first term, 3 hours a week. Dr. Sheldon.

122. Principles of Science. A study of those terms and relations of science which are logically and metaphysically fundamental. Graduate course, second term, 3 hours a week. Professor Marvin.

116, 11. Problems in Contemporary Ethics. Graduate course, second term, 3 hours a week. Professor G. S. Patton.

II. DEPARTMENT OF HISTORY, POLITICS, AND ECONOMICS

THE PRESIDENT, PROFESSORS DANIELS, PAUL VAN DYKE, GARFIELD, CONEY, WESTCOTT, WYCKOFF, MC ELROY, ADRIANCE, BOGART, CORWIN, DAWSON, ELLIOTT, MC ILWAIN, MEEKER, MYERS, SHIPMAN, AND C. W. SPENCER; MR. PRICE, MR. ILES, MR. PAHLOW, AND MR. WHITTLESEY

22. Medieval History; 400 A.D.–1300 A.D. Sophomore elective, second term, 3 hours a week. Prere-

quisite to the history courses in Junior and Senior years. One lecture weekly by Professor Paul van Dyke, and two recitations weekly in small divisions, the recitations being conducted by Professors Paul van Dyke, Coney, McElroy, Adriance, Dawson, Elliott, and Mr. Whittlesey. (This course is to precede and be continuous with History 31 and 32.)

31. European History; 1300 A.D.–1713 A.D. Lectures and required reading. Junior course, first term, 3 hours a week. Prerequisite course: History 22. Professor Coney.

32. European History; 1713 A.D.–1870 A.D. Lectures and required reading. Junior course, second term, 3 hours a week. Prerequisite course: History 22. Professor Coney.

33. Elements of Jurisprudence. Outlines of jurisprudence. An exposition of jurisprudence as an organic whole, exhibiting the nature of its subject-matter, its relationship to cognate branches of study, the inter-relationship of its several parts to each other, and their proper function and aim. Lectures and collateral reading. T. E. Holland: *Elements of Jurisprudence;* Sir W. Markby: *Elements of Law;* Sir H. S. Maine: *Ancient Law;* and E. Jenks: *Law and Politics in the Middle Ages.* Junior course, first term, 3 hours a week. The President.

34. Constitutional Government. The genesis, nature, and operation of constitutional government, with especial reference to the political institutions of England and the United States. W. Wilson: *The State;* E. Boutmy: *English Constitution;* A. V. Dicey: *The Law of the Constitution;* W. Bagehot: *The English Constitution;* W. Wilson: *Congressional Government.* Junior course, second term, 3 hours a week. The President.

35, 36. Elements of Economics. This course will comprise the essential elements of the abstract theory of economics and some of the more essential applications and exemplifications of the theory, such as money, banking, transportation, international trade, and monopoly problems. There will be regularly one lecture a week, and two recitations in small groups to test the student's apprehension of the subject matter covered in the reading. Fetter: *Principles of Economics.* Junior course, both terms, 3 hours a week. Prerequisite course: History 22. Prerequisite to Public Finance and General Social Theory. Professor Bogart and Professor Wyckoff.

41, 42. History. The Three English Revolutions. An account of the establishment and fall of the Commonwealth, the Glorious Revolution of 1688, and the American Revolution; their resemblances and contrasts. Lectures, with collateral reading and tests. Senior course, both terms, 3 hours a week. Prerequisite course: History 22. Professor Paul van Dyke.

43. American History to the Fall of the Federalist Party. An account of the discovery of the continent, the growth of colonial institutions, the development of concerted action among the colonies, and the establishment of the federal government. Lectures dealing with selected topics; text book covering the entire period; and extensive collateral reading. Senior course, first term, 3 hours a week. Prerequisite course: History 22. Professor McElroy.

44. American History since the Fall of the Federalist Party. An account of the development and expansion of the United States. Lectures dealing with selected topics; text-book covering the entire period; and extensive collateral reading. Senior course,

second term, 3 hours a week. Prerequisite course: History 22. Professor McElroy.

45. Politics. Government of Dependencies. An examination of the theory of relations between dominant and dependent countries, and of the administrative methods employed in the government of colonies and kindred political communities, with special reference to the American problems. Lectures and collateral reading. Required reading for 1907-1908: Ireland: *The Far Eastern Tropics;* Reinsch: *Colonial Government;* Willoughby: *Territories and Dependencies of the United States;* LeRoy: *Philippine in Town and Country.* Senior course, first term, 3 hours a week. Professor Garfield.

46. Politics. Government by Party. An examination of the political forces operating the machinery of democratic governments, with special reference to the practical workings of the system of government in the United States. Lectures and collateral reading. The reading for preceptorial conferences for 1907–1908 will be selected from Bryce: *American Commonwealth;* Ford: *American Politics;* Macy: *Party Organization and Machinery;* Ostrogorski: *Democracy.* Senior course, second term, 3 hours a week. Prerequisite course: Constitutional Government 34. Professor Garfield.

47. Politics. International Law. A discussion of the general principles with their application to some current and disputed questions. Text-book: Hall: *A Treatise on International Law.* Senior course, first term, 3 hours a week. Professor Elliott.

48. Politics. Nature and Theory of the State. Hobbes: *Leviathan;* Locke: *On Civil Government;* Rousseau: *The Social Contract;* Lowell: *Essays on Government;* Wilson: *An Old Master and other Political Essays;*

Willoughby: *The Nature of the State.* Only selected portions of these books will be required. Senior course, second term, 3 hours a week. Professor Elliott.

49. Economics. Public Finance. This course will cover the theory of public finance. Lectures with weekly conferences. Daniels: *Public Finance.* Reference book: Bullock: *Selected Readings in Public Finance.* Senior course, first term, 3 hours a week. Prerequisite courses: History 22 and Economics 35, 36. Professor Bogart.

50. Economics. Social Theory. The course will cover the development of theories of social reconstruction with special reference to modern socialism and anarchy. Rae: *Contemporary Socialism.* Reference books: Webb: *Industrial Democracy;* Hobson: *Evolution of Modern Capitalism.* Senior course, second term, 3 hours a week. Prerequisite courses: History 22 and Economics 35, 36. Professor Wyckoff.

51. (Classics 49.) Roman Law. The History and Institutes of Roman Law. Sohm: *Institutes of Roman Law,* English translation. Senior course, first term, 3 hours a week. Professor Westcott.

52. (Classics 50.) Roman Law. The Institutes of Justinian and Gaius in Latin: translation and exposition. Sandars (or other): *Justinian;* Robinson: *Selections from Roman Law.* Senior course, second term, 3 hours a week. Prerequisite course: Roman Law 51. Professor Westcott.

THE PRO-SEMINARY. In the Department of History, Politics, and Economics there will be a pro-seminary both terms; the pro-seminary to be divided into sections, one for history, one for politics, and one for economics. Admission to the pro-seminary will be

conditioned upon a student's obtaining in the Junior year courses in the Department the standing prescribed for entrance upon pro-seminary work. Professor Garfield will be the director of the pro-seminary, and will take special charge of the pro-seminary section in politics. Professors Paul van Dyke and McElroy will conduct the historical section, and Professors Wyckoff and Meeker the economic section.

101, 102. The French Revolution. A study of the causes of the movement. Ability to read French is required. Graduate course, both terms, 3 hours a week. Professor Shipman.

103, 104. England in the Nineteenth Century. A study of constitutional changes, the advance in the colonial system and the development of the imperial idea. Graduate course, both terms, 3 hours a week. Professor Myers.

105. The Teutonic Colonies in America during the Seventeenth Century. Graduate course, first term, 3 hours a week. Professor Dawson.

106. Causes of the American Revolution. A study of the conditions prevalent in the American Colonies of the British Empire in the first half of the Eighteenth Century, and of the circumstances surrounding the raising of the imperial issue after the close of the Seven Years' War. Graduate course, second term, 3 hours a week. Professor C. W. Spencer.

108. The Evolution of the Federal Constitution of the United States. A study of the adoption of the Constitution, its early interpretation, and some aspects of the later development of opinion relative to it. Graduate course, second term, 3 hours a week. Professor Dawson.

109. History of the Doctrine of Nullification. Graduate course, first term, 3 hours a week. Professor McElroy.

111, 112. The American Civil War. The conduct of the war by the Federal Government, and the mutual relation of the Departments during the war. Graduate course, both terms, 3 hours a week. Professor Corwin.

113, 114. History of Spanish America; 1700-1900. A seminary course in the South American struggle for independence. A rapid reading knowledge of Spanish and French is required. Graduate course, both terms, 3 hours a week.

115, I. (Classics 107, I.) The Private Law Orations of Cicero, with a study of the legal institutions of his time. Graduate course, first term, 3 hours a week, alternating yearly with 115, II. Professor Westcott.

115, II. (Classics 107, II.) Sources of Early Roman Law. Bruns: *Fontes Juris Romani Antiqui;* Lindsay: *Latin Inscriptions.* Graduate course, first term, 3 hours a week, alternating yearly with 115, I. Professor Westcott.

117, 118. History of the English Common Law. Graduate course, both terms, 3 hours a week. Professor McIlwain.

119. International Law and Diplomacy. A study of the diplomatic history of the United States and the part played by the United States in the development of international law. Graduate course, first term, 3 hours a week. Professor Elliott.

120. Advanced Economic Theory. An exposition of economic theory; essentially a contrast of the classical and post-classical theories of distribution. Seminary course for competent graduates. Graduate

course, second term, 3 hours a week. Professor Daniels.

121, 122. History of Economics. A résumé of economic ideas from the Middle Ages to modern times. Graduate course, both terms, 3 hours a week. Professor Adriance.

124. Economic Regulation. A study of Factory Acts, Tenement Acts, Limited Liability Acts, and Employer's Liability Acts, conducted in connection with the pro-seminary in 1907-1908. Graduate course, second term, 3 hours a week. Professor Wyckoff.

125. History and Theory of Transportation. A survey of the improvements in methods and instruments of transportation since the application of steam, with the consequent changes in legal and economic theories relating to public carriers. The questions of state control, ownership, and operation are treated with special reference to American conditions. A reading knowledge of French and German will be helpful. Graduate course, first term, 3 hours a week. (Given in connection with the pro-seminary in 1907-1908.) Professor Meeker.

126. The Industrial Evolution of the United States. An investigation in the development of typical American industries, domestic and foreign commerce, labor organizations, and similar problems. Graduate course, second term, 3 hours a week. Professor Bogart.

B. DIVISION OF ART AND ARCHÆOLOGY

III. DEPARTMENT OF ART AND ARCHÆOLOGY

PROFESSORS MARQUAND, BUTLER, TONKS, AND MOREY

31. Classical Archæology. A general outline of the history of Greek and Roman architecture, sculpture, painting, and the minor arts. Lectures and required reading. Reference books: Collignon: *Manual of Greek Archæology;* Martha: *L'Archéologie Etrusque et Romaine.* Junior course, first term, 3 hours a week. Professor Tonks.

32. Medieval Archæology. A general outline of the history of Early Christian, Byzantine, Romanesque, and Gothic sculpture, painting, and the minor arts. Lectures and required reading. Reference books: Lowrie: *Monuments of the Early Church;* Bayet: *L'Art Byzantin;* Lethaby: *Mediæval Art.* Junior course, second term, 3 hours a week. Professor Tonks.

33. Ancient Architecture. A course in the history of Egyptian, Assyrian, Persian, Greek, and Roman architecture. Two hours of lecture and one of historical drawing. Reference books: Hamlin: *History of Architecture;* Sturgis: *European Architecture.* Junior course, first term, 3 hours a week. Prerequisite to 43, 44 Elements of Architecture. Professor Butler.

34. Medieval Architecture. The history of Early Christian, Byzantine, Romanesque, and Gothic architecture. Two hours of lectures and one of historical drawing. Reference books: Hamlin: *History of Architecture*; Sturgis: *European Architecture.* Junior

course, second term, 3 hours a week. Prerequisite course: Ancient Architecture 33. Professor Butler.

41. Greek Sculpture. A study of the technique, forms, composition, and history of Greek sculpture. Lectures and required reading. Gardner: *Handbook of Greek Sculpture*. Senior course, first term, 3 hours a week. Prerequisite course: Classical Archæology 31. Professor Marquand.

42. Renaissance Painting. A study of the technique, subjects, compositions, and historical relations of Italian Renaissance painting. Reference books: Lafenestre: *La Peinture Italienne;* Wölfflin: *Art of the Renaissance*. Senior course, second term, 3 hours a week. Prerequisite course: one of the Junior courses in Art and Archæology. Ability to read French is desirable for this course. Professor Marquand, or Professor Tonks.

43, 44. Elements of Architecture. The classic orders of ancient and Renaissance architecture, studied in their historical development, from reproductions of the ancient monuments, from the text of Vitruvius, and from the works of Vignola and Palladio. This course includes drawing to scale, with shades and shadows, and exercises in historical design. Ware: *The American Vignola*. Senior course, both terms, 3 hours a week. Prerequisite course: Ancient Architecture 33. Professor Butler.

45. Greek Public and Private Life. A survey of the life of the ancient Greeks in their public and private activities. Lectures and required reading. Gulick: *Life of the Ancient Greeks;* Gardner and Jevons: *Manual of Greek Antiquities*. Senior course, first term, 3 hours a week. A fair knowledge of the Greek language is desirable for this course. Professor Tonks.

46. Italian Sculpture. A general survey of the history of Italian sculpture through the Renaissance period. Lectures and required reading. Bode: *Italienische Plastik*. Senior course, second term, 3 hours a week. Prerequisite course: one of the Junior courses in Art and Archæology. Ability to read German is desirable for this course. Professor Marquand, or Professor Morey.

101. Greek Architecture. This course will consist of a critical study of Vitruvius's *De Architectura*. Graduate course, first term, 3 hours a week. Professor Marquand.

103, 104. Christian Architecture. A practical study of ecclesiastical architecture from the fourth century to the twelfth, including the subjects of the construction, design, and details of the early Christian, Byzantine, and Romanesque periods, with exercises in drawing. Requires elementary knowledge of the history of Christian art and Medieval history, and ability to read French. Graduate course, both terms, 3 hours a week. Professor Butler.

106. Renaissance Architecture. A practical study of the architecture of the Renaissance in Europe, with exercises in design. Requires knowledge of the elements of architecture; of shades, shadows, and perspective; and ability to read French. Graduate course, second term, 3 hours a week. Professor Butler.

107, 108. Pausanias. A study of the topography and monuments of Greece, as described by Pausanias and illustrated by the results of recent excavations. Graduate course, both terms, 3 hours a week. Professor Tonks.

109. Roman Topography. A study of the topography and monuments of ancient Rome. Graduate course, first term, 3 hours a week. Professor Morey.

C. DIVISION OF LANGUAGE AND LITERATURE

IV. DEPARTMENT OF CLASSICS

PROFESSOR WINANS, DEAN WEST, PROFESSORS WESTCOTT, ROBBINS, PRENTICE, CAPPS, STUART, ANDERSON, BASORE, CAMERON, HASTINGS, KELLOGG, MAC RAE, DAVID MAGIE, JR., E. M. RANKIN, VAN HOOK, BARRETT, AND HARMON; MR. FLEET, DR. HOUGHTON, MR. NIXON, AND DR. VAN DEVENTER.

11. Xenophon: Hellenica. In this course the strictest attention will be paid both to the meaning of individual words and phrases and to the historical content of the chapters read. Some account will be given of this epoch of Greek history, and as much time as possible will be devoted to reading simple prose Greek at sight. Blake: *Hellenica;* Bury: *History of Greece.* Lysias. The Greek text will be used as a basis for a study of Greek idiom and syntax, and for the acquisition of the vocabulary necessary to pursue with profit the subsequent courses in this Department. Practical exercises in writing Greek will also be given. Morgan: *Lysias;* Allison: *Greek Prose Composition.* Freshman course, required of candidates for the degree of A.B., first term, 4 hours a week. Professor Prentice.

12. Herodotus and Homer. The first half of the term: Herodotus and Greek History; the second half of the term: selected portions of the Odyssey. Attention will be given to Ionic forms and to the special features of syntax and style of Herodotus and the Odyssey. Freshman course, required of candidates for the degree of A.B., second term, 4 hours a week. Professor Robbins.

13. Livy, Latin Prose Composition, and Roman History. The greater part of the first and a large part of the twenty-first and twenty-second books will be studied both as history and as Latin, one-quarter of the time being devoted to exercises in prose composition. Westcott: *Livy, Books I, XXI, and XXII:* Abbott: *A Short History of Rome.* Freshman course, required of all candidates for the degrees of A.B., Litt. B., and B.S., first term, 4 hours a week. Professor Westcott.

14. Roman Comedy, Cicero's Letters, and Roman History. Part of the time will be devoted to the study of selected comedies of Plautus and Terence, and part to colloquial Latin as represented in selected letters of Cicero. Freshman course, required of all candidates for the degrees of A.B., Litt.B., and B.S., second term, 4 hours a week. Professor Stuart.

21. Greek Drama: Aristophanes and Euripides. Selected plays. Lectures on the development of the drama, on the presentation of plays, on the authors and their works. Sophomore course, required of candidates for the degree of A.B., first term, 3 hours a week. Professors Winans and Robbins.

22. Lucian. Selected dialogues; illustrative of the life and thought of the second century A.D. Brief account of the later Greek literature. Sophomore course, elective for candidates for the degree of A.B., second term, 3 hours a week. Professor Prentice.

23. Sophomore Elective Latin. Reading of prose literature of the Silver Age, as represented in Tacitus and Pliny the Younger, with incidental study of the political and social life of their time. Tacitus: *Agricola* and *Germania;* Pliny: *Letters.* Sophomore course, elective for all candidates for the degrees of A.B., Litt.B., B.S., first term, 3 hours a week. Professors Kellogg and Van Hook.

24. Horace and Catullus. Horace: *Odes* and *Satires*; Catullus: *Selections*. Sophomore required for A.B., required alternative for Litt.B. and B.S., second term, 3 hours a week. Dean West.

31. Greek Philosophy; Plato. One or more short dialogues entire, with substantial portions of others: Protagoras, Phædo, Phædrus, Gorgias, Republic. Study of form, style, and philosophic content. Selections from Aristotle; the Nicomachean Ethics will also be read. Junior course, first term, 3 hours a week. Professor Winans.

32. Sophocles. Two plays will be read, and their literary qualities, dramatic construction, and stage-setting discussed. As far as possible these plays will also be read in Greek, metrically. Summaries of the other plays of Sophocles will be presented. Lectures will be given on the myths involved, and on Sophocles's literary career. Junior course, second term, 3 hours a week. Professor Prentice.

33. Latin Literature of the Republic. General sketch. Junior course, first term, 3 hours a week. Professor Kellogg.

34. Latin Literature of the Empire. General sketch. Junior course, second term, 3 hours a week. Professor David Magie, Jr.

41. Æschylus: selected plays. Lectures on the author and his plays. Senior course, first term, 3 hours a week. Professor Robbins.

42. Greek Poetry. Survey of Greek poetic literature from Homer to Theocritus. Lectures and discussions; select readings, especially from the lyric poets; individual work with theses. Senior course, second term, 3 hours a week. Professor Winans.

43. Greek Historians. One lecture will be given each week on the history of Greek literature, with special

regard to the sources of Greek history. The other hours will be devoted to reading selections from Greek historians, in order to compare the different accounts given by the Greeks themselves of various epochs in their history. Senior course, first term, 3 hours a week. Professor Prentice.

44. Comparative Grammar of Greek and Latin. Lectures and practical exercises. Reference books: Brugmann, Hirt, Lindsay, Meyer, Stolz. Senior course, second term, 3 hours a week. Professor Robbins.

45. The Roman Elegiac Poets. Roman Philosophy; Lucretius: De Rerum Natura. Reading and interpretation of the text, with occasional illustrative lectures in appreciation of the poem in its literary, scientific, and religious aspects. Thesis at end of course on some topic suggested by the work of the term. Senior course, first term, 3 hours a week. Professor Stuart or Professor Basore.

46. Virgil. A critical study of his literary development as illustrated in the Bucolics, the Georgics, and the Æneid, together with an investigation of the Pseudo-Virgiliana. Senior course, second term, 3 hours a week. Professor Stuart.

47. Roman Literary Criticism. Quintilian: *Tenth book of the Institutio Oratoria;* Horace: *Epistles;* Tacitus: *The Dialogus*. Senior course, first term, 3 hours a week. Dean West.

48. Tacitus. Reading of the Annals and Histories of Tacitus, with special attention to the author's style as a writer and his aims and methods as an historian. Senior course, second term, 3 hours a week. Professor Westcott.

49. (Hist., Politics, and Econom. 51.) Roman Law. The History and Institutes of Roman Law. Sohm: *Institutes of Roman Law*, English translation. Senior

course, first term, 3 hours a week. Professor Westcott.

50. (Hist., Politics, and Econom. 52.) The Institutes of Justinian and Gaius in Latin: translation and exposition. Sandars (or other): *Justinian;* Robinson: *Selections from Roman Law.* Senior course, first term, 3 hours a week. Prerequisite course: Roman Law 49. Professor Westcott.

101. Aristophanes. Selected plays. Graduate course, first term, 3 hours a week. Professor Robbins.

102. Historical Latin and Greek Grammar. Phonology and morphology. Lectures and reading. Brugmann, Hirt, Meyer, Stolz, and Lindsay. Graduate course, second term, 3 hours a week. Professor Robbins.

103. Greek Inscriptions. Lectures will be given on the history of classical epigraphy, the alphabet, and the methods of interpretation. Practical exercises will be held in reading from casts and squeezes. Inscriptions of special historical value, chiefly those of the fifth century, will be interpreted and discussed. Graduate course, first term, 3 hours a week. Professor Prentice.

104. Thucydides. Critical study of the history of Thucydides. Graduate course, second term, 3 hours a week. Professor Winans.

105, 106. Medieval Latin Literature. A course involving the extensive reading of representative writers. Graduate course, both terms, 3 hours a week. Dean West.

107, 1. (Hist., Politics, and Econom. 115, 1.) The Private Law Orations of Cicero, with a study of the legal institutions of his time. Graduate course, first term, 3 hours a week, alternating yearly with 107, 11. Professor Westcott.

107, II. (Hist., Politics, and Econom. 115, II.) Sources of Early Roman Law. Bruns: *Fontes Juris Romani Antiqui;* Lindsay: *Latin Inscriptions.* Graduate course, first term, 3 hours a week, alternating yearly with 107, I. Professor Westcott.

109. Cicero. Study of date, sources, method, purpose, etc., of various works, and of the development of the author's style in his successive periods. Results of study to be embodied in weekly papers to be handed in and discussed. Graduate course, first term, 3 hours a week. Professor David Magie, Jr.

110. Paleography and Text-criticism. Reading of Latin manuscripts, search for material, collation, formation of genealogies, and construction of text. Lectures and direction leading to theses. Graduate course, second term, 3 hours a week. Dr. Richardson.

111, 112. Aristotle's Athenian Constitution. In addition to the interpretation of the text of this treatise extensive collateral reading will be assigned in the historians and biographers. Topics in Athenian constitutional history and in political institutions will be assigned for report, and members of the class will be encouraged to undertake original studies in these fields. Graduate Course, both terms, 3 hours a week. Professor Capps.

V. DEPARTMENT OF ENGLISH

PROFESSORS HUNT, HENRY VAN DYKE, HARPER, PARROTT, AXSON, COVINGTON, CRAIG, CROLL, GEROULD, GRIFFIN, LONG, MAC DONALD, MILES, OSGOOD, ROOT, AND SPAETH; DR. G. D. BROWN, MR. BURT, DR. MURCH, AND MR. CLEMONS.

11, 12, *a.* Selected English authors, for special study and for general reading. The principles of composi-

tion and rhetoric will be derived therefrom. Frequent reports on assigned reading. Freshman required course, both terms, 2 hours a week for A.B., Litt.B., B.S., and C.E. Freshman. Professor Covington, assisted by Instructors in the Department.

11, 12, *b*. To Freshmen who enter the Cliosophic or the American Whig Society there is offered, as a substitute for 11, 12, *a*, an elective course in Public Speaking and Debate. Freshman course, both terms, 2 hours a week for A.B., Litt.B., B.S., and C.E. Freshmen. Professor Covington for the Cliosophic Society, and Professor Craig for the American Whig Society.

21. Outline Sketch of English Literature. A brief survey of English literature from earliest times to the Victorian Age. Occasional lectures; oral and written recitations; reports on required reading. The reading in this course is designed to illustrate the various periods in the history of English literature. Sophomore elective, first term, 3 hours a week. Prerequisite to the choice of the English Department in Junior year. Professors Parrott, Axson, and Covington.

31. English Literature: The Sixteenth Century. The revival of learning, the Reformation, the national awakening under the Tudors, and the influence of Italy, in their effect upon English letters. Spenser, Sidney, and Marlowe will be studied. Attention will be paid to the history of the drama and of lyric poetry, and to the narrative of Elizabethan voyagers. Junior course, first term, 3 hours a week. Prerequisite courses: Sophomore English for A.B.; Sophomore English and Latin for Litt.B. Professor Parrott.

32. English Literature; Shakespeare. A study of some of Shakespeare's representative plays. Reference books: Dowden: *Shakspeare, His Mind and Art;*

Boas: *Shakspeare and His Predecessors.* Junior course, second term, 3 hours a week. Professor Axson.

33. History of the English Language, with Old and Middle English Readings. Lectures on the history, vocabulary, and structure of the English language. Study of Middle English syntax. Selections from the Old English Gospels, and from Middle English authors, other than Chaucer. Emerson: *English Language;* Bright: *St. Matthew;* Morris and Skeat: *Specimens of Early English, Part II.* Junior course, first term, 3 hours a week. Prerequisite course: English 22. Prerequisite to English 34. Professor Hunt.

34. Elementary Old English. A grammatical and phonological study of Old English, with readings mainly from Old English prose literature. Smith: *Old English Grammar;* Baskerville and Harrison: *Anglo-Saxon Reader,* or Wyatt: *Old English Reader.* Junior course, second term, 3 hours a week. Prerequisite course: English 33. Prerequisite to English 45. Professor Hunt.

41. Restoration and Eighteenth Century Literature. Discussion of leading poets and prose writers from Dryden to Burns, with especial emphasis on the rise of the romantic school. Senior course, first term, 3 hours a week. Professor Axson.

42. Seventeenth Century Literature. Lectures on the poets and prose writers during the age of Milton. The assigned reading will include the larger part of Milton's poetry, his *Areopagitica,* his *Letter on Education,* Browne's *Religio Medici,* Walton's *Compleat Angler,* and selections from the Cavalier poets. Senior course, second term, 3 hours a week. Professor Osgood.

43. English Prose of the Nineteenth Century. A literary study of some of the leading British and American novelists and essayists. Senior course, first term, 3 hours a week. Professor Henry van Dyke.

44. English Poetry of the Nineteenth Century. A study of the chief poets of the romantic and Victorian eras. Senior course, second term, 3 hours a week. Professor Axson.

Note. The order of courses 43 and 44 is reversed in successive years, and the professors in charge alternate. The arrangement for 1907-1908 is as here stated, but in 1908-1909 the course in Poetry will be given in the first term by Professor van Dyke, and the course in Prose will be given in the second term by Professor Axson.

45. Advanced Old English. Selections, mainly poetical, from Old English Literature will be read, under direction of the professor in charge and the preceptors, two hours a week. One hour a week will be devoted to lectures by the professor in charge on historical and critical topics. Sweet's *Anglo-Saxon Reader* or Bright's *Anglo-Saxon Reader* will be the basis for selections. Cook's *Sievers Old English Grammar* and Kent's *Elene* will be used as reference books. A thesis will be required of department students. Senior course, first term, 3 hours a week. Prerequisite course: English 34. (Given after 1907-1908.) Professor Hunt.

46. Chaucer and his Contemporaries. Lectures on Chaucer, his period, his language, and his contemporaries. The reading will include the greater part of Chaucer's poetry, together with selections from Langland, Gower, Wyclif, and the author of *Sir Gawaine and the Green Knight.* A thesis of considerable length, embodying the results of indepen-

dent investigation, conducted under the guidance of the preceptors, will be required of every student. One hour a week will be devoted to lectures and two hours a week to preceptorial conferences. Skeat: *Student's Chaucer;* Skeat: *Piers Plowman.* A handbook dealing with the period will also be used. Senior course, second term, 3 hours a week. Prerequisite course: English 33. (Given after 1907-1908.) Professor Parrott.

THE PRO-SEMINARY in English will be conducted during both terms under the direction of Professor Spaeth. This pro-seminary will be divided into several sections according to the needs of its members, each section to be in the charge of one of the professors or preceptors. Opportunity will be given to study the language and literature of the Old and Middle English periods, and various aspects of the later literature.

101, 102. Historical English Grammar. Graduate course, both terms, 3 hours a week. Given in 1907-1908, and alternate years following, by Professor Griffin; given in 1908-1909, and alternate years following, by Professor Craig.

103, 104. Old English Poetry. Graduate course, both terms, 3 hours a week. Given in 1907-1908, and alternate years following, by Professor Gerould; given in 1908-1909, and alternate years following, by Professor Spaeth.

105, 106. Chaucer. Graduate course, both terms, 3 hours a week. Professor Root.

107, 108. Elizabethan Drama. Graduate course, both terms, 3 hours a week. Professor Parrott.

109, 110. Middle English Romances. Graduate course,

both terms, 3 hours a week. Given in 1908-1909, and alternate years following. First term: Professor Gerould. Second term: Professor Griffin.

111, 112. The Beginnings of the English Drama. Graduate course, both terms, 3 hours a week. Given in 1907-1908, and alternate years following. Professor Craig.

113, 114. Milton. Graduate course, both terms, 3 hours a week. Given in 1907-1908, and alternate years following. Professor Osgood.

115. Germanic Origins of English Speech: Graduate course, first term, 3 hours a week. Given in 1907-1908, and alternate years following. Professor Spaeth.

117. Shakespeare. Graduate course, first term, 3 hours a week. Given in 1908-1909, and alternate years following. Professor Parrott.

119. Modern Romantic Drama. Graduate course, first term, 3 hours a week. Given in 1908-1909, and alternate years following. Professor Harper.

121. History of Criticism. Graduate course, first term, 3 hours a week. Given in 1909-1910, and alternate years following. Professor Harper.

VI. DEPARTMENT OF MODERN LANGUAGES

PROFESSORS VREELAND, GAUSS, HOSKINS, BLAU, BEAM, BUFFUM, COLLINS, CRITCHLOW, KOREN, MOORE, NORTHUP, PRIEST, THAYER, AND MICHAUD; DR. LYON, MR. MATHEWS, DR. RICHARDS, MR. SPAETH, AND MR. STUART

Germanic Section

11, 12. Beginners' German. Grammar, reading, and composition. Freshman course, both terms, 3 hours a week. Professor Beam and Mr. Spaeth.

13, 14. German Prose and Poetry. Reading of selected works with drill in grammar and exercises in composition. Freshman course, both terms, 2 hours a week for A.B. Freshmen; 3 hours a week for Litt.B., B.S., and C.E. Freshmen. Prerequisite course: Entrance German A. Prerequisite to Sophomore German. Professor Blau, Dr. Lyon, Dr. Richards, and Mr. Spaeth.

21, 22. Beginners' German. Grammar, reading, and composition. Sophomore elective course, both terms, 3 hours a week. Professor Beam and Mr. Spaeth.

23, 24. Sophomore German. An introduction to German literature of the eighteenth and nineteenth centuries. Reading of selected works; collateral reading. Müller: *German Classics*. Reference book: Kluge: *History of German Literature*. Sophomore elective course, both terms, 3 hours a week. Prerequisite course: German 13, 14, or entrance German B. Prerequisite to German 31, 32; 41, 42; 43, 44. Professors Priest and Thayer, Dr. Lyon, and Dr. Richards.

31, 32. German Literature from Opitz to Schiller. First term: selected works of Wieland and Lessing will be read and interpreted in the class; collateral reading in both German and English; lectures on German literature from Opitz to Lessing's death. Second term: selected works of Schiller; collateral reading in both German and English; lectures on German literature from Lessing's death to Schiller's death. Reference books: Scherer's, Robertson's and Francke's histories of German literature. Junior course, both terms, 3 hours a week. Prerequisite course: German 23, 24. Professor Hoskins.

33, 34. Goethe's Life and Works. Lectures and reading. Götz von Berlichingen, Werthers Leiden, Iphigenie,

Faust, Gedichte, Dichtung und Wahrheit, with collateral reading. Reference books: English and German works on Goethe's life and on Faust. Junior course, both terms, 3 hours a week. Prerequisite course: German 23, 24. Professor Blau.

41, 42. The Romantic School in Germany and German Literature since Goethe's death. This course comprises the reading of selected works, lectures, and collateral reading. Senior course, both terms, 3 hours a week. Prerequisite course: German, 23, 24. Professor Beam.

43, 44. Middle High German. Elements of Middle High German grammar. Readings in the medieval German lyric poetry in the first term, and in the epic poetry of the same period in the second term. Senior course, both terms, 3 hours a week. Prerequisite course: German 23, 24. Professor Priest.

THE MODERN LANGUAGE PRO-SEMINARY, open to qualified Seniors, is in charge of Professor Vreeland.

---

101. Old High German. Grammar, reading, and lectures on the historical development of the German language. Knowledge of modern German and Middle High German required, and some knowledge of Gothic useful. Braune: *Althochdeutsches Lesebuch;* Braune: *Althochdeutsche Grammatik.* Graduate course, first term, 3 hours a week. Professor Hoskins.

102. Gothic. Grammar and reading. Wright: *Gothic Primer;* Bernhardt: *Vulfila.* Graduate course, second term, 3 hours a week. Professor Priest.

103. Middle High German. Grammar, lectures, and reading. The course is designed both to furnish a foundation for the historical study of modern German

and to serve as an introduction to the study of Germanic philology. Proficiency in modern German is required. Paul: *Mittelhochdeutsche Grammatik;* Michels: *Mittelhochdeutsches Elementarbuch;* Weinhold: *Mittelhochdeutsches Lesebuch.* Graduate course, first term, 3 hours a week. Professor Hoskins.

104. Historical German Grammar. Introduction, phonology, morphology. Requires a knowledge of Gothic, Old and Middle High German. Lectures. References to Paul: *Grundriss der Germanischen Philologie;* Streitberg: *Urgermanische Grammatik.* Graduate course, second term, 3 hours a week. Professor Hoskins.

106. Old Icelandic. Grammar, lectures, and reading. For advanced students. Noreen: *Altisländische und Altnorwegische Grammatik;* Kahle: *Altisländisches Elementarbuch;* Ranisch: *Die Volsungasaga.* Graduate course, second term, 3 hours a week. Professor Hoskins.

109. The influence of the literature of England upon the literature of Germany in the eighteenth century. Graduate course, first term, 3 hours a week. Dr. Richards.

110. History of the Drama in Germany. Graduate course, second term, 3 hours a week. Professor Beam.

112. History of Lyric Poetry in Germany. Graduate course, second term, 3 hours a week. Professor Blau.

113. History of the Novel in Germany. Graduate course, first term, 3 hours a week. Professor Thayer.

Romanic Section

11, 12. Beginners' French. Grammar, composition, and reading, Fraser and Squair: *Grammar.* Freshman

course, both terms, 3 hours a week. Professor Collins, Mr. Mathews, and Mr. Stuart.

13, 14. Freshman French. This course consists of reading and practical exercises in French syntax and composition, and collateral reading, Freshman course, both terms, 2 hours a week for A.B. Freshmen, 3 hours a week for Litt.B., B.S., and C.E. Freshmen. Prerequisite course: Entrance French A. Prerequisite to Sophomore French. Professors Buffum, Collins, and Critchlow, Mr. Mathews, and Mr. Stuart.

21, 22. Beginners' French. Grammar, composition, and reading. Fraser and Squair: *Grammar*. Sophomore elective, both terms, 3 hours a week. Professor Collins, Mr. Mathews, and Mr. Stuart.

23, 24. Sophomore French. General introduction to the study of French literature. This course consists of a general survey of French literature, based on textbooks, with a study of representative works of different periods. Sophomore elective, both terms, 3 hours a week. Prerequisite course: French 13, 14, or Entrance French B. Prerequisite to French 31, 32; 41, 42; 43, 44. Professors Vreeland and Moore.

31, 32. French. The French literature of the seventeenth century. Special attention is given to the development of the drama and to the general characteristics of the age of Louis XIV. The course also includes a general view of the first half of the eighteenth century and selections from Le Sage, Marivaux, and Voltaire. Junior course, both terms, 3 hours a week. Prerequisite course: French 23, 24. Professor Koren.

35. Italian. Grammar, composition, and reading. Grandgent: *Italian Grammar*. Junior course, first term, 3 hours a week. Prerequisite to Italian 36. Professor Koren.

36. Italian. Reading of the Inferno of Dante. Scartazzini: *La Divina Commedia di Dante Alighieri.* Junior course, second term, 3 hours a week. Prerequisite course: Italian 35. Prerequisite to Italian 45. Professor Gauss.

37, 38. Spanish. Grammar, composition, and reading from modern Spanish authors. Junior course, both terms, 3 hours a week. Prerequisite to Spanish 47, 48. Professors Critchlow and Northup.

41, 42. French. The Romantic Movement. A general view of French literature from Rousseau to contemporary writers, with particular attention to the generation of 1830; the gradual transformation of the earlier Romanticism; the Parnassian school of poetry; the realistic novel; Taine and later criticism. Recitations and reports, with occasional lectures. A large amount of reading is required. Senior course, both terms, 3 hours a week. Prerequisite course: French 23, 24. Professor Gauss.

43, 44. Old French. A study of the language and literature of France from its origin to the Renaissance. This course consists of a general survey of the history of the language, and of the extensive reading of texts with special attention to their literary side. Senior course, both terms, 3 hours a week. Prerequisite course: French 23, 24.

45. Italian. Reading of the Purgatorio of Dante. Scartazzini: *La Divina Commedia di Dante Alighieri.* Senior course, first term, 3 hours a week. Prerequisite course: Italian 36. Prerequisite to Italian 46. Professor Gauss.

46. Italian. Reading of the Paradiso of Dante. Scartazzini: *La Divina Commedia di Dante Alighieri.* Senior course, second term, 3 hours a week. Prerequisite course: Italian 45. Professor Gauss.

47. Spanish. General survey of Spanish literature and extensive readings from modern Spanish authors. Senior course, first term, 3 hours a week. Prerequisite courses: Spanish 37, 38. Prerequisite to Spanish 48.

48. Spanish. Spanish literature of the Golden Age and readings from Cervantes, Calderón, and Lope de Vega. Senior course, second term, 3 hours a week. Prerequisite courses: Spanish 37, 38, 47.

THE MODERN LANGUAGE PRO-SEMINARY, open to qualified Seniors, is in charge of Professor Vreeland.

101, 102. Old French Philology. Lectures on old French etymology, morphology, and syntax. Graduate course, both terms, 3 hours a week. To alternate with 103, 104. Professor Buffum.

103. Folk Latin. This course will begin with a brief historical sketch of the Romance nations from the time of the Roman colonization. The Roman and the Teutonic elements in Romance civilization will be contrasted. The phonology, morphology, and syntax of Folk-Latin will then be traced from the earliest period to the rise of the Romance literatures. Especial attention will be devoted to the contrast between Folk-Latin and classic Latin and to the Folk-Latin background of the Romance languages. Graduate course, first term, 3 hours a week. To alternate with 101. Professor Buffum.

104. French Dialects. The dialects of northern France, or of the *Langue d'Oil*, will be traced from the earliest monuments to the present day. Introductory lectures will be given on the general theories of the

origin and growth of dialects, especially with reference to the Romance group. The geographical position, phonology, morphology, and literature of the individual dialects of northern France will then be considered, especial attention being given to the study of illustrative texts. A knowledge of old French is required. Graduate course, second term, 3 hours a week. To alternate with 102. Professor Buffum.

106. French syntax. An historical survey of French syntax. Graduate course, second term, 3 hours a week. Mr. Mathews.

107. The Renaissance in France. Graduate course, first term, 3 hours a week. Professor Moore.

109. The National Epic to the end of the twelfth century. Graduate course, first term, 3 hours a week. Professor Collins.

110. The Breton Epic. Graduate course, second term, 3 hours a week. Professor Critchlow.

111. The French Drama prior to the Cid. Graduate course, first term, 3 hours a week. Mr. Stuart.

112. The Development of Literary Criticism in France. Graduate course, second term, 3 hours a week. Professor Gauss.

113, 114. Old Spanish Readings, including a study of the phonology, morphology, and historical syntax of the old Spanish language. Graduate course, both terms, 3 hours a week. Professor Northup.

COURSES NOT INCLUDED IN ANY OF THE PRECEDING DEPARTMENTS

41, 42. Sanskrit. Senior course, both terms, 3 hours a week. Professor Winans. (This course falls in Division C.)

43, 44. Biblical Literature. Origin, development, nature, and content of the literature of the Old Testament. First term: general introductory lectures upon religion and the Bible, followed by a study of the Pre-Exilic Old Testament literature. Second term: the Exilic and Post-Exilic Old Testament literature. Lectures and preceptorial work. Required reading from the English text itself, and from such books as Dod's *The Bible; Its Nature and Origin;* Addis: *Hebrew Religion;* Kent: *History of The Hebrew;* Riggs: *Maccabean Period;* Cornill: *Prophets of Israel;* Sabatier: *Philosophy of Religion.* Senior course, both terms, 3 hours a week. Professor Miller. (This course falls in Division C.)

101, 102. Advanced Sanskrit. Reading of classical and Vedic Sanskrit in the first and second terms. Windisch: *Zwölf Hymnen des Rig Veda;* or Peterson: *Handbook to the Study of the Rig Veda, Part II.* Graduate course, both terms, 3 hours a week. Professor Winans or Professor Robbins.

103, 104. Avesta. Grammar and reading of selected texts. Jackson: *Avesta Grammar, Avesta Reader, first series;* Geldner: *Avesta;* Mills: *Gâthâs.* Graduate course, both terms, 3 hours a week. Professor Robbins.

JOHN C. GREEN SCHOOL OF SCIENCE

FACULTY

WOODROW WILSON, PH.D., LITT.D., LL.D., *President.*
HENRY BURCHARD FINE, PH.D., *Dean of the Faculty, Dod Professor of Mathematics.*
ANDREW FLEMING WEST, PH.D., LL.D., HON. D. LITT. (Oxon.), *Dean of the Graduate School.*

CYRUS FOGG BRACKETT, M.D., LL.D., *Henry Professor of Physics.*
HENRY BEDINGER CORNWALL, E.M., PH.D., *Professor of Chemistry and Mineralogy.*
CHARLES MCMILLAN, A.M., C.E., *Professor of Civil Engineering.*
WILLIAM LIBBEY, D.SC., *Professor of Physical Geography.*
WILLIAM BERRYMAN SCOTT, PH.D., LL.D., *Blair Professor of Geology.*
FREDERICK NEWTON WILLSON, A.M., C.E., *Professor of Graphics.*
WILLIAM FRANCIS MAGIE, PH.D., *Clerk of the University Faculty, Professor of Physics.*
LEROY WILEY MCCAY, D.SC., *Professor of Chemistry.*
HENRY DALLAS THOMPSON, D.SC., PH.D., *Professor of Mathematics.*
HERBERT STEARNS SQUIER SMITH, C.E., *Professor of Civil Engineering.*
WALTER BUTLER HARRIS, C.E., *Professor of Geodesy.*
ELMER HOWARD LOOMIS, PH.D., *Professor of Physics.*
EDGAR ODELL LOVETT, PH.D., *Professor of Astronomy.*
WALTER MEAD RANKIN, PH.D., *Professor of Biology.*
CHARLES FREEMAN WILLIAMS MCCLURE, A.M., *Professor of Zoology.*
ALEXANDER HAMILTON PHILLIPS, D.SC., *Professor of Mineralogy.*
FRED NEHER, A.M., *Professor of Chemistry.*
CHARLES HENRY SMYTH, JR., PH.D., *Professor of Geology.*
JAMES HOPWOOD JEANS, M.A., F.R.S., *Professor of Applied Mathematics.*
HOWARD MCCLENAHAN, E.E., M.S., *Professor of Physics.*
OWEN WILLANS RICHARDSON, D.SC., *Professor of Physics.*
AUGUSTUS TROWBRIDGE, PH.D., *Professor of Physics.*
ULRIC DAHLGREN, M.S., *Assistant Professor of Biology.*
GEORGE AUGUSTUS HULETT, PH.D., *Assistant Professor of Physical Chemistry.*

WILLIAM FOSTER, PH.D., *Assistant Professor of Chemistry.*
EDWIN PLIMPTON ADAMS, PH.D., *Assistant Professor of Physics.*
PHILIP ELY ROBINSON, PH.D., *Assistant Professor of Physics.*
HEREWARD LESTER COOKE, M.A., *Assistant Professor of Physics.*
GILBERT AMES BLISS, PH.D., *Preceptor in Mathematics.*
LUTHER PFAHLER EISENHART, PH.D., *Preceptor in Mathematics.*
WILLIAM GILLESPIE, PH.D., *Preceptor in Mathematics.*
OSWALD VEBLEN, PH.D., *Preceptor in Mathematics.*
JOHN WESLEY YOUNG, PH.D., *Preceptor in Mathematics.*
MARCUS STULTS FARR, D.SC., *Preceptor in Geology.*

INSTRUCTORS

JOHN GALE HUN, PH.D., *Instructor in Mathematics.*
CHARLES RANALD MACINNES, PH.D., *Instructor in Mathematics.*
ROBERT LEE MOORE, PH.D., *Instructor in Mathematics.*
CARL EBEN STROMQUIST, PH.D., *Instructor in Mathematics.*
ELIJAH SWIFT, PH.D., *Instructor in Mathematics.*
RAYMOND SMITH DUGAN, PH.D., *Instructor in Astronomy.*
HENRY NORRIS RUSSELL, PH.D., *Instructor in Astronomy.*
CLINTON JOSEPH DAVISSON, *Instructor in Physics.*
PHILLIPS THOMAS, B.S., *Instructor in Electrical Engineering and Physics.*
LIONEL HERMAN DUSCHAK, A.B., *Assistant in Chemistry.*
TRUMAN STEPHEN WOODWARD, A.B., *Instructor in Chemistry.*
WILLIAM RICHEY HULSIZER, A.B., *Assistant in Chemistry.*
ISAAC RIPPLE SCHUMAKER, A.B., *Assistant in Chemistry.*
WILLIAM DOLTON PARDOE, B.S., *Assistant in Mineralogy.*
WILLIAM JOHN SINCLAIR, PH.D., *Instructor in Geology.*
GILBERT VAN INGEN, *Assistant in Geology.*
CHARLES FREDERICK SILVESTER, *Assistant in Anatomy.*
EDWARD CHARLES MCWILLIAMS, B.S., *Instructor in the Department of Civil Engineering.*
HARRY NEWTON CLARK, C.E., *Instructor in the Department of Civil Engineering.*
WILLIAM EARL CORY, C.E., *Instructor in the Department of Civil Engineering.*
NATHANIEL DAIN, C.E., *Instructor in the Department of Civil Engineering.*
———— ———— ————, C.E., *Instructor in the Department of Civil Engineering.*

D. DIVISION OF MATHEMATICS AND SCIENCE

VII. DEPARTMENT OF MATHEMATICS

DEAN FINE, PROFESSORS THOMPSON, JEANS, BLISS, EISENHART, GILLESPIE, VEBLEN, AND YOUNG; DR. HUN, DR. MAC INNES, DR. MOORE, DR. STROMQUIST, AND DR. SWIFT

11. Plane Trigonometry. Definitions of the six trigonometric functions as ratios, relations between these six functions, values of the functions for 0°, 30°, 45°, 60°, 90°, 120°, 135°, etc., etc., formulas for the sine, cosine, and tangent of the sum or difference of two angles for all angles, formulas for the sum or difference of two sines or two cosines, expressions for the functions of double and half angles, trigonometric identities and equations, theory of logarithms and the use of trigonometric tables, and the solution of right and oblique plane triangles. The circular measure of angles. The inverse trigonometric functions. Required of all Freshmen who do not take Spherical Trigonometry 13; half of first term, 4 hours a week. Professors Eisenhart, Gillespie, Veblen, and Young, Dr. Hun, Dr. MacInnes, Dr. Moore, Dr. Stromquist, and Dr. Swift.

13. Spherical Trigonometry and Applications of Trigonometry. Required of all Freshmen who do not take Plane Trigonometry 11; half of first term, 4 hours a week. Professors Eisenhart, Bliss, Gillespie, Veblen, and Young, Dr. Hun, Dr. MacInnes, Dr. Moore, Dr. Stromquist, and Dr. Swift.

15, 16. Selected Portions of Algebra and Elementary Theory of Equations. Theory of the fundamental

operations and of the solution of conditional equations. Method of undetermined coefficients. The division transformation, synthetic division, the remainder theorem. Highest common factor. Partial fractions. Graphs of equations of the first and second degree in two variables. Theory of Equations. Determinants. Fine: *College Algebra.* Required of all Freshmen, half of first term and half of second term, 4 hours a week. Professors Eisenhart, Bliss, Gillespie, Veblen, and Young, Dr. Hun, Dr. MacInnes, Dr. Moore, Dr. Stromquist, and Dr. Swift.

18. Conic Sections, Treated from the Cartesian Standpoint. Required of all Freshmen, half of second term, 4 hours a week. Professors Eisenhart, Bliss, Gillespie, Veblen, and Young, Dr. Hun, Dr. MacInnes, Dr. Moore, Dr. Stromquist, and Dr. Swift.

21, 22. Calculus. Required of all C.E. Sophomores; elective course, open to all Sophomores who are candidates for a Bachelor's degree; both terms, 3 hours a week. Prerequisite to the Departments of Mathematics and Physics. Professors Thompson, Bliss, Gillespie, and Young, and Dr. Stromquist.

23. Geometry, a course supplementary to course 18. Required of all C.E. Sophomores, first term, 2 hours a week. Professors Thompson, Bliss, and Gillespie.

24. Analytical Mechanics. Introductory course. Required of all C.E. Sophomores, second term, 2 hours a week. Professors Eisenhart, Bliss, Gillespie, and Veblen.

31, 32. Analytic Solid Geometry, and Elementary Differential Equations. Junior course, both terms, 3 hours a week. Professor Thompson.

33, 34. (Physics 33, 34.) Analytical Mechanics. The general principles of mechanics; the statics and

dynamics of particles, rigid bodies, and fluids. Lectures. Junior course, both terms, 3 hours a week. Prerequisite courses: Mathematics 21, 22. Professors Eisenhart, Gillespie, and Veblen.

41, 42. Advanced Calculus and Elements of the Theory of Functions. Elementary course introductory to the notions and methods of modern mathematical analysis. Lectures. Senior course, both terms, 3 hours a week. Prerequisite to the graduate courses in mathematics and astronomy. First term, Professor Bliss; second term, Professor Young.

43. Analytic Solid Geometry. Senior course, first term, 3 hours a week. Professor Veblen.

44. Higher Geometry. Senior course, second term, 3 hours a week. Professor Eisenhart.

45, 46. (Physics 43, 44.) Theoretical Physics. A course in the mathematical theory of electricity and magnetism. J. J. Thomson: *Elements of Electricity and Magnetism*. Lectures. Senior course, both terms, 3 hours a week. Prerequisite courses: Mathematics 21, 22; 33, 34. Professor Jeans.

A PRO-SEMINARY IN MATHEMATICS is open to qualified Seniors who have chosen the Department of Mathematics. (To be superseded after the present year by the honors courses of Senior year.)

HONORS COURSES IN MATHEMATICS

Candidates for a Bachelor's degree, who have been ranked in Freshman year in the first or second group in mathematics, may enter as candidates for honors in mathematics and physics at the beginning of Sophomore year. Other candidates from the same class may be admitted on recommendation of the Department of Mathematics.

The Department of Mathematics offers, in conjunction with the Department of Physics, the following courses, which are open to candidates for honors in mathematics and physics:

25, 26. Honors course in Calculus: Differential and Integral Calculus. Differentiation of algebraic and elementary transcendental functions. Integration. Properties of continuous functions. Applications of differentiation including maxima and minima. Definite integrals. Geometrical and physical applications. Special curves. Curvature. Envelopes. Infinite series and Taylor's theorem. Ordinary Differential Equations. Solvable equations of the first order. Linear equations of higher order with constant coefficients. Analytical Geometry of Three Dimensions. The plane. The right line in space. The tangent plane and normal to a surface. Exclusive with Mathematics 21, 22. Sophomore course, both terms, 4 hours a week. Prerequisite to the honors courses of Junior year. Dean Fine.

35, 36, *A*. Honors course in Pure Mathematics: Geometry. Plane Coordinate Geometry. The general equation of the second degree. Transformation of the equation to its normal forms. Diameters and polars. Metric properties of conics. Homogeneous point and line coordinates. Systems of conics. Theory of algebraic plane curves. Invariants and covariants of ternary forms. Coordinate Geometry in Space. Coordinate systems. Transformation of coordinates. The general equation of the second degree and the classification of quadric surfaces. Centers, conjugate diameters, and plane sections of quadrics. Generating lines. General properties of surfaces. Junior course, both terms, 3 hours a week. Prerequisite to Pure Mathematics 47, 48, *a*. Professor Thompson.

37, 38, *B*. Honors course in Analysis: Higher Integral Calculus. Analytical trigonometry. Special integrals, including Beta and Gamma functions, and elliptic integrals. Volume and surface integrals. Mean value and probability. Fourier's series. Introduction to calculus of variations. Differential Equations. Review of cases of solvable equations of the first order and of linear equations with constant coefficients. Singular solutions. Linear equations of the second order. Equations of Legendre, Bessel, and Riccati. Functions of Legendre and Bessel. Hypergeometric series. Equations with more than one dependent variable. Systems of such equations. Introduction to linear partial differential equations. Junior course, both terms, 3 hours a week. Prerequisite to Analysis 49, 50, *b*. Professor Bliss.

39, 40, *C*. Honors course in Applied Mathematics: Analytical Mechanics. (Physics 35, 36, *c*.) Mechanics. Kinematics. Laws of motion. Statics of particles and rigid bodies. Centre of gravity. Work and energy. Stability and instability. Motion of particles under constant and variable forces. Orbits. Motion of rigid bodies. Generalized coordinates and Lagrange's equations. Small oscillations. Hydrostatics. Pressure of fluids. Floating bodies, metacentre. Capillarity. Pressure of a gas. Junior course, both terms; 3 hours a week. Prerequisite to Applied Mathematics 50, 51, *c*. Professor Jeans.

47, 48, *a*. Honors course in Pure Mathematics. Geometry. Differential Geometry. The parametric form of representation. Properties of plane curves and curves in space. Invariants and intrinsic equations. Evolutes, involutes and developable surfaces. Systems of curves in the plane and on a surface. Determination of a surface by two quadratic differ-

ential forms. Conjugate systems and geodesic lines. Projective Geometry. The postulates. The principle of duality. Projectivity of one-dimensional forms. Elementary configurations. Conic sections and quadratic surfaces. Linear congruences and complexes. Collineations in the plane and in space. The relation of analytic to synthetic projective geometry. Real and imaginary elements in geometry. Senior course, both terms, 3 hours a week. Prerequisite course: Pure Mathematics 35, 36, *A*. (Not given in 1907-1908.)

49, 50, *b*. Honors course in Analysis: Theory of Functions. The complex variable. Conformal representation. Elementary theory of representation by Riemann surfaces. Uniform convergence of series. Differentiation and integration of series. Power series and operations with power series. Taylor's theorem. Analytic continuation. Singularities of analytic functions. Laurent's series. Cauchy's theorem. The theory of residues. Applications to the evaluation of definite integrals. Weierstrass' factor theorem. Introduction to the theory of elliptic functions. Senior course, both terms, 3 hours a week. Prerequisite course: Analysis 37, 38, *B*. (Not given in 1907-1908.)

51, 52, *c*. (Physics 45, 46, *c*.) Honors course in Applied Mathematics: Electricity and Magnetism. Theory of the potential and of lines and tubes of force. The principles of electrostatics. The electrostatic field. System of charged conductors. Dielectrics. Special problems of electrostatics. Currents of electricity in linear conductors. The flow of electricity in solid conductors and in dielectrics. The principles of magnetism. Induced magnetism. Terrestrial magnetism. The magnetic field produced by electric

currents. Induction in linear circuits. The general equations of the electromagnetic field. Electromagnetic waves and the electromagnetic theory of light. The motion of electrons. Senior course, both terms, 3 hours a week. Prerequisite course: Applied Mathematics 39, 40, *C*. (Not given in 1907-1908.)

---

101. Theory of Substitutions. Elementary theory of substitutions, of groups of substitutions and rotations. Application of the theory of groups to the solution of algebraic equations. Graduate course, first term, 3 hours a week. Professor Gillespie.

102. Theory of Invariants. The theory of invariants and covariants of binary quantics, developed in the symbolic notation of Clebsch. Graduate course, second term, 3 hours a week. Professor Gillespie.

103. Vector Analysis. A study of the points, lines and circles arising out of the 3-line, 4-line, and 5-line, in terms of conjugate or circular coordinates. Representation of the point equation of a curve by means of a complex parameter and of the line equation in conjugate coordinates. Graduate course, first term, 3 hours a week. Dr. MacInnes.

105. Theory of Functions of a Complex Variable. Advanced course. In 1907-8 this course will be supplementary to Mathematics 42, as defined in the list of courses, so that together they will cover the same ground as Honors Course *b*. to be given later. Graduate course, first term, 3 hours a week. Professor Young.

106. Elliptic Functions. Periodic functions. General theorems on elliptic functions. Functions of Weierstrass and Jacobi. Theta and modular functions. Addition theorems and transformations. Applications to the integral calculus, geometry, and me-

chanics. Graduate course, second term, 3 hours a week. Dr. Stromquist.

107. Theory of Algebraic Functions. Introduction to the theory of algebraic numbers and to the theory of algebraic functions of a single variable. Graduate course, first term, 3 hours a week. Dean Fine.

108. Calculus of Variations. A discussion of the historical examples which led to the development of the calculus of variations. General theory for plane curves, defined in the form $y=f(x)$ and also in the parametric representation. Isoperimetric problems and problems in space. Double integrals. Graduate course, second term, 3 hours a week. Professor Bliss.

109. Projective Geometry. In 1907-8 this course will cover the same ground as the second part of Honors course *a*. Graduate course, first term, 3 hours a week. Professor Veblen.

110. Foundations of Geometry. A consideration of various sets of postulates for arithmetic and geometry, and a study of relations existing between fundamental propositions. The development of arithmetic and geometry from a set of postulates. Graduate course, second term, 3 hours a week. Dr. Moore.

111. Analytic Projective Geometry. Involutions of points on a line. Homogeneous coordinates in one and two dimensions. Clebsch's symbolic notation. Projective properties of conics. Theory of higher plane curves. Graduate course, first term, 3 hours a week. Dr. Hun.

112. Partial Differential Equations. Examples illustrating the determination of solutions of partial differential equations by initial conditions. Kowaleski proofs of the existence of solutions. The elements of the theory of homogeneous and non-homogeneous

linear equations and of complete systems of equations. An introduction to the study of general equations of the first and second orders from the standpoint of the theory of characteristics. Graduate course, second term, 3 hours a week. Professor Bliss.

113. Infinitesimal Geometry. Historical readings from some of the memoirs of Monge, Dupin, Gauss, Weingarten, Darboux, and Bianchi. Graduate course, first term, 3 hours a week. Professor Thompson.

114. Infinitesimal Geometry. Finite and infinitesimal deformation of surfaces. The general theory as developed by Bonnet, Beltrami, Darboux, and Weingarten. The deformations of ruled surfaces, the surfaces of constant curvature and the quadrics with particular reference to the theory of the transformations of these surfaces. Graduate course, second term, 3 hours a week. Professor Eisenhart.

115, 116. (Physics 119, 120.) Molecular Dynamics and the Kinetic Theory of Gases. Generalized dynamical coordinates, and introduction to the methods of statistical mechanics. Physical bases of the kinetic theory. Physical properties of gases interpreted by the kinetic theory. Discussion of the current problems and unsolved difficulties of the theory. Graduate course, both terms, 3 hours a week. Professor Jeans.

VIII. DEPARTMENT OF PHYSICS

PROFESSORS BRACKETT, W. F. MAGIE, LOOMIS, MC CLENAHAN, RICHARDSON, TROWBRIDGE, ADAMS, ROBINSON, AND COOKE; MR. DAVISSON, MR. THOMAS, MR. SPENCE, AND MR. BARROWS.

11, 12. Elementary Experimental Physics. Beginners' course in physics, including classroom and laboratory

work. Gage: *Principles of Physics*. For Litt.B., B.S., and C.E. Freshmen who have not offered physics for entrance, both terms, 3 hours a week. For this course a fee of $5 is charged, and a deposit on apparatus of $5 is required. Professors McClenahan and Cooke, Mr. Davisson, Mr. Thomas, Mr. Spence, and Mr. Barrows.

21, 22. General Physics. A descriptive course in general physics, including mechanics, illustrated by experiments. Syllabus. Sophomore course, required for A.B., both terms, 3 hours a week. Professor Trowbridge.

23, 24. General Physics. Lectures, based on experimental demonstrations. Frequent written recitations. Hastings and Beach: *Physics*. Sophomore course, required for Litt.B., B.S., and C.E., both terms, 3 hours a week. Professor Loomis.

31, 32. Experimental Physics. A course in experimental physics, with lectures and laboratory work. Miller: *Laboratory Physics*. Reference books: Stewart and Gee; Millikan. Junior course, both terms, 3 hours a week. Professors Loomis and Robinson.

33, 34. (Mathematics 33, 34.) Analytical Mechanics. The general principles of mechanics; the statics and dynamics of particles, rigid bodies, and fluids. Lectures. Junior course, both terms, 3 hours a week. Prerequisite course, Mathematics 21, 22. Professors Eisenhart, Gillespie, and Veblen.

41, 42. Theoretical Physics. A course in the elementary mathematical theories of heat and light. Lectures. Senior course, both terms, 3 hours a week. Prerequisite course: Mathematics 21, 22. Professors W. F. Magie and Robinson.

43, 44. (Mathematics 45, 46.) Theoretical Physics. A course in the mathematical theory of electricity and

magnetism. J. J. Thomson: *Elements of Electricity and Magnetism.* Lectures. Senior course, both terms, 3 hours a week. Prerequisite courses: Mathematics 21, 22; 31, 32. Professor Richardson.

A PRO-SEMINARY IN PHYSICS is open to qualified Seniors who have chosen the Department of Physics. Professor Richardson has been appointed Director for the year 1907-1908.

HONORS COURSES IN PHYSICS

The Department of Physics offers, in conjunction with the Department of Mathematics, the following courses, which are open to candidates for honors in mathematics and physics:

25, 26. Honors course in General Physics. Mechanics, including kinematics, statics, and dynamics. Hydrostatics. Properties of matter. Heat. Light, chiefly from the standpoint of geometrical optics. Magnetism and electricity. Sophomore course, both terms, 3 hours a week. Those taking this course do not take Physics 21, 22 or 23, 24. Professor W. F. Magie.

35, 36, *C.* (Mathematics 39, 40, *C.*) Honors course in Analytical Mechanics. Mechanics. Kinematics. Laws of motion. Statics of particles and rigid bodies. Centre of gravity. Work and energy. Stability and instability. Motion of particles under constant and variable forces. Orbits. Motion of rigid bodies. Generalized coordinates and Lagrange's equations. Small oscillations. Hydrostatics. Pressure of fluids. Floating bodies, metacentre. Capillarity. Pressure of a gas. Junior

course, both terms, 3 hours a week. Professor Jeans.

37, 38, *D.* Theoretical Physics. Heat and Thermodynamics. General principles of thermometry and calorimetry. Elementary theory of conduction of heat. Elementary treatment of the kinetic theory of matter. Maxwell's law of distribution. Van der Waals's equation. Radiation. Theory of exchanges. General principles of thermodynamics. Thermodynamic relations. Properties of homogeneous bodies. Change of state. Theory of solutions. Sound. Kinematics of wave motion. Reflection of waves. Stationary waves in strings and rods. Sound waves in air. Fundamentals and overtones. Beats and resultant tones. Physical Optics. Elementary discussion of the undulatory theory. Interference, Young's and Fresnel's experiments. Diffraction. Applications to the theory of optical instruments. Double refraction and polarization. Simple cases of effects of crystal plates. Rotary polarization. Dispersion and absorption. Spectrum analysis. Junior course, both terms, 3 hours a week. Professors Trowbridge and Adams.

39, 40, *E.* Experimental Physics. Experiments in mechanics, properties of matter, sound, heat, and light. Junior course, both terms, 3 hours a week. Professors Loomis and Robinson.

45, 46, *c.* (Mathematics 51, 52, *c.*) Theory of Electricity and Magnetism. Theory of the potential and of lines and tubes of force. The principles of electrostatics. The electrostatic field. System of charged conductors. Dielectrics. Special problems of electrostatics. Currents of electricity in linear conductors. The flow of electricity in solid con-

ductors and in dielectrics. The principles of magnetism. Induced magnetism. Terrestrial magnetism. The magnetic field produced by electric currents. Induction in linear circuits. The general equations of the electromagnetic field. Electromagnetic waves and the electromagnetic theory of light. The motion of electrons. Senior course, both terms, 3 hours a week. (To be given after 1907-1908.)

47, 48, *d*. Theoretical Physics. Hydrodynamics. Equations of fluid motion. Integration in special cases. Velocity potential and irrotational motion. Motion of solids through fluids. Vortex motion. Waves. Motion of viscous fluids. Wave Theory. General theory of vibrations. Forced vibrations, resonance. Damped vibrations. Solutions for free vibrations of strings and membranes. Equations of motion of elastic media. Huygen's principle. Anisotropic media. Fresnel's surface. The Electron Theory. Atomic theory of electricity. Conduction in liquids. Maxwell's views, Lorentz's theory. Zeeman effect. Electromagnetic mass. Ionization. Conduction through gases. Determination of the ratio of the charge on an ion to its mass. Determination of the charge. Isolation of the electron. Electron theory of metallic conduction. Radioactivity. Theories of atomic structure. Senior course, both terms, 3 hours a week. (To be given after 1907-1908.)

49, 50, *e*. Experimental Physics. Experiments in electricity and magnetism. Lectures on electrical measurements. Special problems involving exercise in the experimental methods used in research. Senior course, both terms, 3 hours a week. (To be given after 1907-1908.)

101, 102. Theory of Electricity. Reading course. First term, Mascart et Joubert: *L'Electricité et le Magnét-*

isme; second term, Drude: *Die Physik des Aethers.* Graduate course, both terms, 3 hours a week. Professor Brackett.

103, 104. Absolute Measurements in Electricity and Magnetism. Reading course. Gray: *The Theory and Practice of Absolute Measurements in Electricity and Magnetism.* Graduate course, both terms, 3 hours a week. Professor McClenahan.

105. Theory of Heat. Laws of Thermodynamics. Carnot's theorem. Absolute scale of temperature. The thermodynamic functions. Thermodynamic properties of homogeneous bodies. The ideal gas. Change of state. System of three phases. Critical temperature. Van der Waals's equation. Physical properties of solutions. Lectures. Buckingham: *Theory of Thermodynamics.* Graduate course, first term, 3 hours a week. Professor Magie.

107. Radioactivity. The discovery and preparation of radioactive substances. Nature and properties of radiation. Disintegration theory of radioactivity. Application of the phenomena of radioactivity to other fields. Rutherford: *Radioactivity.* Graduate course, first term, 3 hours a week. Professor Adams.

109, 110. Electron Theory and Atomic Structure. The development of the electron theory, based on Maxwell's equations, together with Lorentz's work and the idea of electromagnetic mass. The application of the conception of the electron to the material furnished by the different branches of physics and especially by the science of optics, the conduction of electricity through gases, radioactivity, spectroscopy and chemistry. Graduate course, both terms, 3 hours a week. Professor Richardson.

111. Theory of Elastic Solids. The physical properties of actual solids. The ellipsoids of strain and stress

and their respective properties. Potential energy of strained solids. Problem of Saint Vénant. Special problems of flexure and tension. Distentional and compressional waves in solids of two dimensions. Double refraction and the Fresnel wave front. Graduate course, first term, 3 hours a week. Professor Loomis.

112. Theory of Potential. Universal mass-attraction. The Laplace equation and potential function. Role of the potential function in attraction and repulsion. Surface distribution of attractive matter. Equation of Poisson and Green's theorem. Attraction due to an ellipsoid. Application of the potential theory to problems in magnetism and electricity. Graduate course, second term, 3 hours a week. Professor Loomis.

114. Electromagnetic Theory of Light. Reflection, refraction, dispersion, absorption. Rotatory polarization. Magneto-optics. Optical properties of metals. Laws of radiation. The relative motion of ether and matter. Graduate course, second term, 3 hours a week. Professor Trowbridge.

115, 116. Theory and Practice of Exact Measurements. This course is intended for students who have already had training in general laboratory practice. It is designed to instruct them in more refined methods of observation, and especially to train them in the use of those instruments which are frequently employed in research. Graduate course, both terms, 3 hours a week. Professor Loomis.

118. Atmospheric Electricity. Introduction to theory of ionized gases. Methods of observation. Atmospheric ionization, its causes and distribution. Atmospheric potential gradient. General electrical phenomena. Detailed discussion of work of various

observers. Graduate course, second term, 3 hours a week. Professor Cooke.

119, 120. (Mathematics 115, 116.) Molecular Dynamics and the Kinetic Theory of Gases. Generalized dynamical coordinates, and introduction to the methods of statistical mechanics. Physical bases of the kinetic theory. Physical properties of gases interpreted by the kinetic theory. Discussion of the current problems and unsolved difficulties of the theory. Graduate course, both terms, 3 hours a week. Professor Jeans.

IX. DEPARTMENT OF CHEMISTRY

PROFESSORS CORNWALL, MC CAY, NEHER, HULETT, AND FOSTER; MR. WOODWARD, MR. DUSCHAK, MR. HULSIZER, AND MR. SCHUMAKER

11, 12. General Inorganic Chemistry. Experimental lectures and recitations on the elements and their compounds. Newell: *Descriptive Chemistry.* Required course for C.E. Freshmen, both terms, 3 hours a week. Professor McCay, assisted by Mr. Woodward.

21, 22. General Inorganic Chemistry. Experimental lectures on the elements and their compounds, supplemented by laboratory work. Two lectures and one laboratory exercise of 4 hours each week. The laboratory work is in part introductory to qualitative analysis. Newth: *Inorganic Chemistry.* Sophomore elective, both terms, 3 hours a week. Prerequisite to all later courses in chemistry and mineralogy and to the Departments of Chemistry, Biology, and Geology. Professor McCay. Laboratory work. Professor Foster, assisted by Mr. Woodward, Mr. Duschak, Mr. Hulsizer, and Mr. Schumaker.

31. Advanced Inorganic and Theoretical Chemistry. *a.* Chemistry of the Metals and *b.* Chemical Theories. Lectures and written recitations. Newth: *Inorganic Chemistry;* Dobbin and Walker: *Chemical Theory;* Ostwald: *Outlines of Theoretical Chemistry.* Junior course, first term, 3 hours a week. Prerequisite course: General Inorganic Chemistry. Required in the Department of Chemistry. Professor McCay.

32 *a.* Organic Chemistry. Introductory course devoted to the study of the properties, relationships, synthesis, and structure of the more important classes of acyclic compounds. Junior course, second term, 3 hours a week. Prerequisite courses: General Chemistry and Qualitative Analysis. Prerequisite to all later courses in Organic Chemistry. Required in the Department of Chemistry. Professor Neher.

32 *b.* Organic Chemistry. General course devoted to the study of the properties, relationships, synthesis, and structure of the most important classes of aliphatic and aromatic compounds. Two lectures and one laboratory exercise each week. Cohen: *Theoretical Organic Chemistry.* Junior course, second term, 3 hours a week. Prerequisite courses: General Chemistry and Qualitative Analysis. Required in the Department of Biology. Professor Foster.

33. Qualitative Analysis. The study and practice of the methods for separating and detecting the more common bases and acids and their derivatives, followed by the analysis of simple and complex substances. The course involves about 8 hours of laboratory work, besides classroom exercises, each week. Junior course, first term, 3 hours a week. Prerequisite course: General Chemistry. Prerequisite to all later courses in chemistry. Required in the Departments

of Chemistry and Biology. Professor Foster, assisted by Mr. Woodward, Mr. Duschak, and Mr. Schumaker.

34. Quantitative Analysis. The theory and practice of typical gravimetric and volumetric analyses, chiefly the analyses of simple salts. This course involves about nine hours of laboratory work, in addition to one or more class exercises, each week. Junior course, second term, 3 hours a week. Prerequisite courses: General Chemistry and Qualitative Analysis. Prerequisite to the Senior courses in Quantitative Analysis and to Organic Chemistry 45. Required in the Department of Chemistry. Professor McCay, assisted by Mr. Hulsizer.

41. Quantitative Analysis. Continuation of Quantitative Analysis 34, including more complex substances, salts, minerals, and alloys. This course involves about nine hours of laboratory work, in addition to one or more class exercises, each week. Senior course, first term, 3 hours a week. Prerequisite courses: General Inorganic Chemistry, Qualitative Analysis, Quantitative Analysis 34. Required in the Department of Chemistry. Professor Cornwall.

42. Volumetric Analysis (and Practice in Combustions). Standard methods in alkalimetry, acidimetry, the determination of metals, iodimetry, etc.; a course covering the principles and practice of the subject so far as possible, and involving about nine hours of laboratory work, in addition to one or more class exercises, each week. Senior course, second term, 3 hours a week. Prerequisite courses: Quantitative Analysis 34 and 41. Required in the Department of Chemistry. Professor Cornwall.

43. Organic Chemistry. Continuation of Organic Chemistry 32, devoted in great part to a discussion of the cyclic compounds. Lectures and recitations. Senior course, first term, 3 hours a week. Prerequisite

courses: General Chemistry, Qualitative Analysis, and Organic Chemistry 32. Required in the Department of Chemistry. Professor Neher.

44. Physical Chemistry. Lectures with frequent recitations, both oral and written. Walker: *Introduction to Physical Chemistry.* Senior course, second term, 3 hours a week. Prerequisite courses: General Physics and General Chemistry. Required in the Department of Chemistry. Professor Hulett.

45. Organic Preparations. The preparation and experimental study of typical carbon compounds, both acyclic and cyclic. About 10 hours of laboratory work each week in addition to class exercises. Senior course, open only to students taking Organic Chemistry 43, first term, 3 hours a week. Prerequisite courses: General Chemistry, Qualitative Analysis, Organic Chemistry 32, and Quantitative Analysis 34. Professor Neher.

46. Laboratory work in Physical Chemistry. Molecular weight determination by vapor density, freezing point, and boiling point methods; study of solutions, solubility, conductivity, etc. Methods for determining heat of neutralization and velocities of reactions. About nine hours of laboratory work each week in addition to class exercises. Ostwald-Luther: *Physiko-Chemische Messungen.* Senior course, open only to students taking Physical Chemistry 44, second term, 3 hours a week. Prerequisite courses: General Chemistry, Qualitative Analysis, Quantitative Analysis 34, and Organic Chemistry 32. Required in the Department of Chemistry. Professor Hulett, with Mr. Duschak.

101, 102. Advanced Quantitative Analysis and Research in Inorganic Chemistry. Graduate course, both terms, 3 hours a week. Professor McCay.

104. The Rare Elements, especially in their relation to minerals and rocks; including spectroscopic and other special methods of analysis. Graduate course, second term, 3 hours a week. Prerequisite course: Quantitative Analysis. Professor Cornwall.

105, 106. Organic Chemistry. Lectures upon special topics, accompanied by the reading and discussion of the literature. Graduate course, both terms, 3 hours a week. Prerequisite course: Elements of Organic Chemistry. Professor Neher.

107, 108. Advanced Laboratory Work in Organic Chemistry. Preparations, special methods of analysis, and research. Graduate course, both terms, 3 hours a week. Professor Neher.

109. Electrochemistry. Lehfeldt: *Electrochemistry.* Graduate course, first term, 3 hours a week. Professor Hulett.

110. Chemical Dynamics. Mellor: *Chemical Dynamics;* Nernst: *Theoretical Chemistry.* Graduate course, second term, 3 hours a week. Professor Hulett.

111, 112. Research work in Physical Chemistry, especially in the field of Electrochemistry. Graduate course, both terms, 3 hours a week. Professor Hulett.

X. DEPARTMENT OF GEOLOGY

PROFESSORS CORNWALL, SCOTT, PHILLIPS, SMYTH, AND FARR; MR. PARDOE, DR. SINCLAIR, AND MR. VAN INGEN

31. Geology. Beginners' course, covering the subject in outline and designed both for those who intend to pursue the subject further, and for those who desire merely to obtain a general knowledge of the science. Scott: *Introduction to Geology.* Reference book: Chamberlin and Salisbury: *Geology.* Junior course, first term, 3 hours a week. Prerequisite course:

Chemistry or Biology. Prerequisite to the Geology of Senior year. Professors Scott and Farr, and Dr. Sinclair.

32. Structural Geology. Study of the common rocks and their most important structural relations. Lectures and laboratory work. Field work required of all departmental students. Geikie: *Structural and Field Geology.* Junior course, second term, 3 hours a week. Prerequisite courses: Geology 31, 33. Prerequisite to the Geology courses of Senior year. Dr. Sinclair.

33. Mineralogy. Lectures, recitations, and practice in theoretical, descriptive, and determinative mineralogy; a study especially of rock-forming minerals and the commoner minerals in general. Junior course, first term, 3 hours a week. Prerequisite course: General Chemistry. Prerequisite to advanced Geology. Professor Cornwall.

34. Mineralogy. Lectures and laboratory work on crystallography and the optical properties of crystals. E. S. Dana: *Textbook of Mineralogy.* Junior course, second term, 3 hours a week. Prerequisite course: Mineralogy 33. Professor Phillips.

41, 42. Historical Geology. Advanced course consisting of lectures, laboratory exercises, and field work. Scott: *Introduction to Geology;* Chamberlin and Salisbury: *Geology, Volumes II and III.* Senior course, both terms, 3 hours a week. Prerequisite courses: Geology 32, and Biology 31, 32. Professor Scott and Mr. van Ingen.

43. Structural and Dynamic Geology. Advanced course involving detailed study of the structural features of the Earth's crust. Lectures, laboratory and field work. Geikie: *Structural and Field Geology.* Senior course, first term, 3 hours a week. Prerequisite

courses: Geology 32 and Mineralogy 34. Professor Smyth and Dr. Sinclair.

44. Economic Geology. The principles controlling the circulation of mineral matter in the earth's crust, and its concentration into workable deposits. Ries: *Economic Geology of the United States;* Kemp: *Ore Deposits of the United States.* Lectures and laboratory work. Prerequisite course: Geology 43. Senior course, second term, 3 hours a week. Professor Smyth.

45. Invertebrate Palæontology. Lectures and laboratory work on fossil invertebrates. Zittel-Eastman: *Textbook of Paleontology, Vol. I.* Senior course, first term, 3 hours a week. Prerequisite courses: Geology 31 and Biology 31, 32. Required cognate: Geology 41. Mr. van Ingen.

46. Invertebrate Palæontology. Study of the constitution and changes of fossil faunas. Lectures and laboratory work. Senior course, second term, 3 hours a week. Prerequisite course: Geology 45. Mr. van Ingen.

47. Mineralogy. Lectures and laboratory work on the microscopical characters of the rock-forming minerals. Luquer: *Minerals in Rock Sections.* Senior course, first term, 3 hours a week. Prerequisite course: Mineralogy 34. Professors Phillips and Smyth.

48. Petrology. The study of rocks, their mineralogical and chemical composition, structure, mode of occurrence, origin, and classification. Lectures and laboratory work. Harker: *Petrology for Students.* Senior course, second term, 3 hours a week. Prerequisite courses; Mineralogy 47 and Geology 43. Professor Smyth.

Summer Course in Field Geology. Juniors who

contemplate electing the major part of their Senior studies in the Department of Geology are strongly advised to take part in the optional field work which will be offered during a portion of each summer vacation.

101. Economic Geology. Graduate course, first term, 3 hours a week. Professor Farr.

103, 104. Stratigraphical Geology. Research course. Field and laboratory work, involving study and description of the stratigraphy, palæontology, and structure of the sedimentary rocks of some particular district, terminating in the preparation of a report according to official standards. Graduate course, given during the summer vacation and both terms, number of hours indefinite. Mr. van Ingen.

105, 106. Petrology. A more detailed study of the subject matter of course 48, together with research in some special branch of petrology. Laboratory, library, and field work continuing through one or more years. Graduate course, both terms, number of hours indefinite. Professor Smyth.

XI. DEPARTMENT OF BIOLOGY

PROFESSORS SCOTT, RANKIN, MCCLURE, DAHLGREN, AND FARR; AND MR. SILVESTER

31, 32. General Biology. Lectures, laboratory work, and recitations. Discussions of the history, theories, and principles of biology. A study of typical forms illustrating structure and function. A review of the relationships of animals and plants, and exercises on the identification of species and classification. Reference books: Hertwig: *Manual of Zoölogy;* Parker and Haswell: *Manual of Zoölogy;* Pratt: *Invertebrate Zoölogy;* Marshall and Hurst: *Practical*

Zoölogy. Junior course, both terms, 3 hours a week. Prerequisite to the subsequent courses in Biology. Professors Rankin and Dahlgren.

33. Structural Botany. Lectures and laboratory work on the structure and functions of plants, with exercises on the analysis and classification of the Phanerogams. Bergen and Davis: *Principles of Botany.* Junior course, first term, 3 hours a week. Professor Rankin.

34. Cryptogamic Botany. Studies of the development of the plant kingdom, with especial reference to the structure and life history of the Cryptogams. Bergen and Davis: *Principles of Botany;* Caldwell: *Plant Morphology.* Junior course, second term, 3 hours a week. Professor Rankin.

41. Comparative Anatomy of Vertebrates. Lecture and laboratory course. Lectures on the comparative anatomy of the organ systems of vertebrates, and dissection of the following forms: *Amphioxus*, the dog-fish, the pigeon, and a mammal. Marshall and Hurst: *Practical Zoölogy.* Reference books: Kingsley: *Vertebrate Zoölogy;* Wiedersheim: *Vergleichende Anatomie der Wirbelthiere.* Senior course, first term, 3 hours a week. Prerequisite courses: Junior courses in Biology. Professor McClure and Mr. Silvester.

42. Vertebrate Embryology. Lecture and laboratory course. A comparative study of the development of vertebrates. Hertwig: *Textbook of Embryology;* Minot; Marshall. Senior course, second term, 3 hours a week. Professor McClure and Mr. Silvester.

43. Histology. A study of protoplasm, the cell, and the tissue as they underlie animal and vegetable life. F. T. Lewis: *Stohr's Text Book of Histology.* Reference books: Schnider: *Histologie der Tiere;* Wilson:

The Cell in Development and Inheritance. Senior course, first term, 3 hours a week. Professor Dahlgren.

44. Vertebrate Palæontology. Lectures and laboratory work on fossil vertebrates. Smith-Woodward: *Vertebrate Paleontology;* Zittel: *Handbuch der Paleontologie.* Senior course, second term, 3 hours a week. Prerequisite courses: Biology 31, 32, and Osteology. Professors Scott and Farr.

45. Comparative Osteology. Ontogeny and comparative structure of the skeleton of the different classes. Exercises in descriptive work. Each student shall prepare a thesis on a skeleton specially assigned for his study. Flower: *Osteology of the Mammalia;* Reynolds: *The Vertebrate Skeleton.* The monographs on the skull, the shoulder-girdle, human anatomy. Senior course, first term, 3 hours a week. Prerequisite course: Junior course in Biology.

46. Advanced Histology and Neurology. The comparative histology of the perceptory tissues with an outline of the morphology of the nervous system of the vertebrates and of some groups of invertebrates. Study of the methods of microscopic technic. F. T. Lewis: *Stohrs's Text Book of Histology.* J. B. Johnston: *Nervous System of Vertebrates.* Reference books: special articles listed in the outlines of the work. Senior course, second term, 3 hours a week. Prerequisite course, Junior course in Biology. Professor Dahlgren.

101, 102. Cytology, Histogenesis, and Comparative Histology. Lectures and the practical study of the cell and its organs. Comparative studies of several tissues. Histogenesis, repair, and regeneration of the tissues. Methods of research and thesis work. Graduate course, both terms, 3 hours a week. Professor Dahlgren.

103. Systematic Botany of the Vascular Plants. Structure as related to description and classification. Exercises in plant-description, rules of nomenclature, and the characters of the larger families of Angiosperms. Campbell: *University Text-book of Botany,* Bentham and Hookes: *Genera of Plants;* Engler and Prantl: *Pflanzen-Familien.* Graduate course, first term, 3 hours a week. Prerequisite to Biology 104.

104. Systematic Botany of the Vascular Plants; second course. Gymnosperms and the vascular cryptogams paleo-botany; phytogeography; field-work on the local flora. Campbell: *University Text-book of Botany;* Britton: *Manual of Flora;* Coulter and Chamberlin: *Gymnosperms and Angiosperms.* Graduate course, second term, 3 hours a week. Prerequisite course: Biology 103.

105, 106. The Morphology and Phylogeny of the Organ Systems of Vertebrates. Graduate research course, both terms, 3 hours a week. Professor McClure.

107. Comparative Morphology of the Invertebrates. Graduate course, first term, 3 hours a week. Professor Rankin.

109. Palæontology of Mammals. Graduate course, first term, 3 hours a week. Professor Scott.

110. Palæontology. The morphology and phylogeny of living and extinct vertebrates other than mammals. Graduate course, second term, 3 hours a week. Professor Farr.

COURSES FALLING UNDER DIVISION D, BUT WHICH ARE NOT INCLUDED IN ANY ONE OF THE PRECEDING DEPARTMENTS

23. Graphics. Elementary Mechanical Drawing. A beginners' course. Willson: *Theoretical and Practi-*

cal Graphics. Elective, open only to B.S. and Litt.B. Sophomores who elect Mathematics at the same time, first term, 3 hours a week. Prerequisite to Graphics 24. Professor F. N. Willson and Mr. McWilliams.

24. Graphics. Curve construction, structure drawing, intersections, etc. Lectures. Willson: *Graphics*. Elective course, open only to B.S. and Litt.B. Sophomores, who have elected both Mathematics 21 and Graphics 23, and who elect Mathematics 22 during the second term. Second term, 3 hours a week. Professor Willson and Mr. McWilliams.

31. Elementary Astronomy. Mainly descriptive, exhibiting the leading facts of astronomy and an elementary explanation of the methods by which they are ascertained. Recitations on textbook, with lectures. Young: *Manual of Astronomy*. Junior course, first term, 3 hours a week. Prerequisite to Senior Astronomy. Professor Lovett.

32 *a*. Geodesy. Surveying. A general outline of methods of surveying and their uses. Raymond: *Surveying*. Junior course, second term, 3 hours a week. Professor Harris.

33. Graphics. Descriptive Geometry. A lecture and textbook course on the fundamental problems of the point, line, and plane, followed by their application to developable, double-curved, and warped surfaces, and including trihedrals and spherical projections, practically applied in the solution of a large number of problems on the drawing-board. Willson: *Descriptive Geometry*. Junior course, first term, 3 hours a week. Professor Willson and Mr. McWilliams.

34. Graphical Statics. Review of general principles of force polygons and of funicular polygons. Extensions to complex problems. Illustrations and drill

in the solution of numerous examples drawn from statical and dynamical engineering, involving direct stresses, and flexural, shearing, and torsional stress; also moments of inertia, centers of gravity of irregular figures, and fluctuations of energy of machines. Lectures, aided by *Merriman and Jacoby*, Part II. Reference book: *Eddy:* New Constructions in Graphical Statics. Junior course, second term, 3 hours a week. Prerequisite courses: Graphics, Physics. Mr. Dain, under the direction of Professor McMillan.

36. Physical Geography. Morphology of the continents. Guyot: *Physical Geography; Earth and Man;* Davis: *Physical Geography;* Tarr: *Elementary Physical Geography;* Mill: *Realm of Nature.* Junior course, second term, 3 hours a week. Professor Libbey.

43, 44. Practical Astronomy (elementary course); determination of time, latitude, and azimuth, work with the equatorial on double stars, variable stars, and the sun. Classroom exercises, with the necessary observatory work. Senior course, both terms, 3 hours a week. Dr. Russell.

45. Theory of Prime Motors. General relations of the factors of energy and power considered analytically and graphically; reduction of inertia and all resistances to driving point; efficiency; general theory of water motors (rotative); thermal motors:—combustion, calorific powers of fuels, theory of chimney-draft, efficiency of generator. Rankine: *Steam Engine and Other Motors.* Reference books: Anthony and Brackett; Ripper: *Steam Engine;* Weisbach: *Hydraulic Motors.* Senior course, first term, 3 hours a week, with laboratory work. Prerequisite courses: Physics, Applied Mechanics (Analytical and Graphical), Chemistry. Prerequisite to Theory of Prime Motors 46. Professor McMillan and Mr. Dain.

46. Theory of Prime Motors. Recitations and lectures, general equations of thermodynamics, expansion and compression curves of gases and vapors, diagrams of energy—[p. v. and t. e.]; modifying causes of diagrams; compound engines; explosive or combustion engines:—Otto cycle; compression and expansion curves; combustion engines with carburetting. Rankine: *Steam Engine and Other Motors.* Reference books: Anthony and Brackett; Ripper; Clerk: *Gas Engine.* Senior course, second term, 3 hours a week, with laboratory work. Prerequisite courses: Physics, Applied Mechanics (Analytical and Graphical), Chemistry. Professor McMillan and Mr. Dain.

48. History of Astronomy. Senior course, second term, 3 hours a week. Professor Lovett.

101, 102. Theoretical Astronomy. Reading course. Calculation of Orbits. Watson: *Theoretical Astronomy;* Oppolzer: *Bahnbestimmung;* Klinkerfues: *Theoretische Astronomie.* Graduate course, both terms, 3 hours a week. Dr. Dugan.

103, 104. Practical Astronomy. Theory of Instruments. Thorough study of the determination of time, latitude, and azimuth; work with the equatorial on double stars, variable stars, and the sun. Chauvenet: *Practical Astronomy.* Graduate course, both terms, 3 hours a week. Dr. Dugan and Dr. Russell.

105. Theory and Method of Reduction of Photographic Star Plates. Determination of star-places from photographic plates, stellar parallax, and proper motion. Graduate course, first term, 3 hours a week. Dr. Russell.

106. Spectroscopy. The theory and use of the spectroscope as an implement of astronomical investigation, with practical work in the observatory. Graduate course, second term, 3 hours a week. Dr. Russell.

107, 108. Celestial Mechanics. An introduction to the general problems of the motions of the heavenly bodies. Lectures and collateral reading in the treatise of Tisserand. Graduate course, both terms, 3 hours a week. Professor Lovett.

109, 110. Modern Theories of Celestial Mechanics. An account of the recent development inspired by the works of Poincaré. Lectures, supplemented by the treatises of Poincaré and Charlier. Graduate course, both terms, 3 hours a week. Professor Lovett.

DEPARTMENT OF CIVIL ENGINEERING

PROFESSORS MC MILLAN, WILLSON, SMITH, AND HARRIS; MR. MC WILLIAMS, MR. CLARK, MR. CORY, AND MR. DAIN,

THE FRESHMAN YEAR

11, 12, *a*. [English 11, 12, *a*.] Selected authors for special study and for general reading. The principles of composition and rhetoric will be derived therefrom. Frequent reports on assigned reading. Required of all C.E. Freshman, both terms, 2 hours a week. Professor Covington, assisted by the instructors in the Department of English.

11, 12, *b*. [English 11, 12, *b*.] To Freshmen who enter the Cliosophic or the American Whig Society there is offered, as a substitute for 11, 12, *a*, an elective course in Public Speaking and Debate. Required of all C.E. Freshmen, both terms, 2 hours a week. Professor Covington for the Cliosophic Society, and Professor Craig for the American Whig Society.

13, 14. [Physics 11, 12.] Elementary Experimental Physics. Beginners' course in physics, including classroom and laboratory work. Gage: *Principles of Physics*. Required of all C.E. Freshmen who have not offered physics for entrance, both terms, 3 hours a week. For this course a fee of $5 is charged, and a deposit on apparatus of $5 is required. Professors McClenahan and Cooke, Mr. Davisson, Mr. Thomas, Mr. Spence, and Mr. Barrows.

15, 16. [German 11, 12.] Beginners' German. Grammar, reading, and composition. Required of all

C.E. Freshmen who have not offered German for entrance (two of the three subjects: physics, German, and French, being required), both terms, 3 hours a week. Professor Beam and Mr. Spaeth.

17, 18. [German 13, 14.] German Prose and Poetry. Reading of selected works, with drill in grammar and exercises in composition. Required of all C.E. Freshmen (two of the three subjects: physics, German, and French being required) who have offered German A for entrance, both terms, 3 hours a week. Professor Blau, Dr. Lyon, Dr. Richards, and Mr. Spaeth.

19, 20. [French 11, 12.] Beginners' French. Grammar, composition, and reading. Fraser and Squair: *Grammar*. Required of all C.E. Freshmen who have not offered French for entrance (two of the three subjects: physics, German, and French being required), both terms, 3 hours a week. Professor Collins, Mr. Mathews, and Mr. Stuart.

21, 22. [French 13, 14.] Freshman French. This course consists of reading and practical exercises in French syntax and composition, with collateral reading. Required of all C.E. Freshmen (two of the three subjects: physics, German, and French being required), who have offered French A for entrance, both terms, 3 hours a week. Professors Buffum, Collins, and Critchlow, Mr. Mathews, and Mr. Stuart.

23, 24. [Mathematics 15, 16.] Selected Portions of Algebra and Elementary Theory of Equations. Theory of the fundamental operations and of the solution of conditional equations. Methods of undetermined coefficients. The division transformation, synthetic division, the remainder theorem. Highest common factor. Partial fractions. Graphs of equations of the first and second degree in two variables. Theory

of Equations. Determinants. Fine: *College Algebra*. Required of all C.E. Freshmen, half of first and half of second term, 4 hours a week. Professors Eisenhart, Bliss, Gillespie, Veblen, and Young, Dr. Hun, Dr. MacInnes, Dr. Moore, Dr. Stromquist, and Dr. Swift.

25. [Mathematics 11.] Plane Trigonometry. Definitions of the six trigonometric functions as ratios, relations between these six functions, values of the functions for 0°, 30°, 45°, 60°, 90°, 120°, 135°, etc., etc., formulas for the sine, cosine, and tangent of the sum or difference of two angles for all angles, formulas for the sum or difference of two sines or two cosines, expressions for the functions of double and half angles, trigonometric identities and equations, theory of logarithms and the use of trigonometric tables, and the solution of right and oblique plane triangles. The circular measure of angles. The inverse trigonometric functions. Required of all C.E. Freshmen who do not take 27, Spherical Trigonometry; half of first term, 4 hours a week. Professors Eisenhart, Gillespie, Veblen, and Young, Dr. Hun, Dr. MacInnes, Dr. Moore, Dr. Stromquist, and Dr. Swift.

27. [Mathematics 13.] Spherical Trigonometry and Applications of Trigonometry. Required of all C.E. Freshmen who do not take 25, Plane Trigonometry; half of first term, 4 hours a week. Professors Eisenhart, Bliss, Gillespie, Veblen, and Young, Dr. Hun, Dr. MacInnes, Dr. Moore, Dr. Stromquist, and Dr. Swift.

28. [Mathematics 18.] Conic Sections, treated from the Cartesian standpoint. Required of all C.E. Freshmen, half of second term, 4 hours a week. Professors Eisenhart, Bliss, Gillespie, Veblen, and Young,

Dr. Hun, Dr. MacInnes, Dr. Moore, Dr. Stromquist, and Dr. Swift.

29, 30. [Chemistry 11, 12.] General Inorganic Chemistry. Experimental lectures and recitations on the elements and their compounds. Newell: *Descriptive Chemistry*. Required of all C.E. Freshmen, both terms, 3 hours a week. Professor McCay, assisted by Mr. Woodward.

31. Graphics. Elementary technical drawing. Line and brush work, conventional representations, lettering, trochoidal curves, oblique and orthographic projections, working drawings, and tracing. Willson: *Theoretical and Practical Graphics*. Required of all C.E. Freshmen, first term, 2 hours a week. Professor Willson and Mr. McWilliams.

32 *b*. Geodesy. Land surveying. Theory of chain and compass surveying. Surveys of public lands. Leveling. Lectures and recitations. Staley-Gillespie: *Land-Surveying*. Required of all C.E. Freshmen, second term, 2 hours a week. Professor Harris, Mr. Clark, and Mr. Cory.

THE SOPHOMORE YEAR

35, 36. [Physics 23, 24.] General Physics. Lectures based on experimental demonstrations. Frequent written recitations. Ames: *General Physics*. Required of all C.E. Sophomores, both terms, 3 hours a week. Professor Loomis.

37, 38. [Mathematics 21, 22.] Conic Sections and Calculus. Required of all C.E. Sophomores, both terms, 3 hours a week. Professors Thompson, Bliss, Gillespie, and Young, and Dr. Stromquist.

39. [Mathematics 23.] Geometry, a course supplementary to course 28. [Mathematics 18.] Required

of all C.E. Sophomores, first term, 2 hours a week. Professors Thompson, Bliss, and Gillespie.

40. [~~Mathematics~~ 24.] Analytical Mechanics. Introductory course. Required of all C.E. Sophomores, second term, 2 hours a week. Professors Eisenhart, Bliss, Gillespie, and Veblen.

43. Mineralogy. Determinative mineralogy (blowpipe analysis), preceded by a short course of lectures, including elements of crystallography. Cornwall: *Manual of Blowpipe Analysis and Determinative Mineralogy*. Required of all C.E. Sophomores, first term, 3 hours a week. Professor Phillips.

44. Geology. Elementary course. General outline of the subject, including dynamical, structural, and historical geology. Scott: *Introduction to Geology*. Reference book: Chamberlin and Salisbury: *Geology*. Required of all C.E. Sophomores, second term, 3 hours a week. Professor Farr.

45. Graphics. Elementary descriptive geometry, intersections, development, and model making. Required of all C.E. Sophomores, first term, 3 hours a week. Professor Willson and Mr. McWilliams.

46. Graphics. (*a*) Structure drawing. Detail and assembly drawings of bridges, etc., from blue prints or actual measurement. Required of all C.E. Sophomores, second term, 2 hours a week. (*b*) Graphic solution of kinematic and projective problems, higher plane curves, cams, crystal projection, and mechanisms. Required of all C.E. Sophomores, second term, 1 hour a week. Professor Willson and Mr. McWilliams.

47. Geodesy. Line and angle measurements, farm surveying, field and office work, and platting of field notes. Topographical drawing in pen work and colors, lettering, map of farm survey. McMillan-

Smith: *Topographical Drawing.* Required of all C.E. Sophomores, first term, 3 hours a week. Professor Harris, Mr. Clark, and Mr. Cory.

48. Geodesy. Structure and adjustment of engineer's field instruments, leveling, contouring, triangulation, and transit work. Lectures, recitations, field and office work. Staley-Gillespie: *Land Surveying.* Required of all C.E. Sophomores, second term, 3 hours a week. Professor Harris, Mr. Clark, and Mr. Cory.

THE JUNIOR YEAR

49, 50. [~~Mathem~~atics 31, 32.] Analytical Mechanics. The general principles of mechanics; the statics and dynamics of particles, rigid bodies, and fluids. Lectures. Required of all C.E. Juniors, both terms, 3 hours a week. Professors Eisenhart, Gillespie, and Veblen.

51. General Astronomy. Elementary astronomy for engineers. Lectures and recitations from text-book, with special reference to preparation for course 56. Young: *Manual of Astronomy.* Required of all C.E. Juniors, first term, 3 hours a week. Professor Lovett.

52. Practical Astronomy. Determination of time, latitude, and azimuth. Practice with the transit instrument, sextant, and theodolite. Determination of latitude with the zenith telescope. Required of all C.E. Juniors, second term, 2 hours a week. Dr. Dugan.

53. Materials of Construction. Descriptive course. Required of all C.E. Juniors, first term, 2 hours a week. Professor Smith.

54. Mechanics of Materials. Strength and elasticity of materials and applications to beams, columns, and shafts. Required of all C.E. Juniors, second term, 4 hours a week. Professor Smith.

55. Geodesy. Town, mine, and hydrographic surveying. Barometric leveling, surveying with the stadia and gradienter. Solar transit. Lectures, recitations, and field work. Raymond: *Surveying;* Staley-Gillespie: *Land Surveying*. Required of all C.E. Juniors, first term, 4 hours a week. Professor Harris, Mr. Clark, and Mr. Cory.

56. Geodesy. Railroad engineering. Lectures, recitations, and field work. Searles: *Field Engineering*. Required of all C.E. Juniors, second term, 5 hours a week. Professor Harris, Mr. Clark, and Mr. Cory.

57. Graphics. Advanced descriptive geometry, pure, and as applied to developable, double-curved, and warped surfaces, spherical projections, and trihedrals. Lectures, text-book work, and practical drafting. Willson: *Descriptive Geometry*. Required of all C.E. Juniors, first term, 2 hours a week. Professor Willson and Mr. McWilliams.

58. Graphics. Shadows, perspective, and valve-motion. Lectures, illustrated with lantern slides, text-book work, and practical problems on the drawing board. Willson: *Shadows and Perspective;* Halsey; *Slide Valve Gears*. Required of all C.E. Juniors, second term, 3 hours a week. Professor Willson and Mr. McWilliams.

59. Graphical Statics. Review of the general principles of force polygons and of funicular polygons. Applications to the solution of direct, flexural, shearing, and torsional stresses, determination of centers of gravity and moments of inertia. General and special applications to girders and framed structures, non-continuous and continuous. Merriman and Jacoby: *Part II*. Reference book: Eddy: *New Constructions in Graphical Statics*. Required of all C.E. Juniors, first term, 3 hours a week. Mr. Dain, under the direction of Professor McMillan.

Geodesy. Summer field practice. Extended field operations and office work, occupying the two weeks following the close of the second term of Junior year. Professor Harris, Mr. Clark, and Mr. Cory.

THE SENIOR YEAR

61. Framed Structures. Analytical and graphical determination of stresses in girders and simple trusses, including the design of details. The theory of the suspension bridge and of the swing bridge. Johnson: *Framed Structures*. References: Blue Prints of Shop Drawings. Required of all C.E. Seniors, first term, 5 hours a week. Professor McMillan and Mr. Dain.

62. Framed Structures. The theory of cantilever bridges, of arched bridges, and of steel-frame buildings. Johnson: *Framed Structures*. Required of all C.E. Seniors, second term, 3 hours a week. Professor McMillan and Mr. Dain.

63. Theory of Prime Motors. General relations of the factors of energy and power considered analytically and graphically: reduction of inertia and all resistances to driving point; efficiency; general theory of water motors (rotative); thermal motors:—combustion, calorific powers of fuels, theory of chimney-draft, efficiency of generator. Rankine: *Steam Engine and Other Motors*. Reference books: Anthony and Brackett; Ripper: *Steam Engine;* Weisbach: *Hydraulic Motors*. Required of all C.E. Seniors, first term, 3 hours a week, with laboratory work. Prerequisite courses: Physics, Applied Mechanics (analytical and graphical), Chemistry. Prerequisite to Theory of Prime Motors 64. Professor McMillan and Mr. Dain.

64. Theory of Prime Motors. Recitations and lectures,

general equations of thermodynamics; expansion and compression curves of gases and vapors, diagrams of energy—[p.v. and t.e.]; modifying causes of diagrams; compound engines; explosive or combustion engines:—Otto cycle; compression and expansion curves; compression curves of gases and vapors, diagrams of combustion engines with carburetting. Rankine: *Steam Engine and Other Motors*. Reference books: Anthony and Brackett; Ripper; Clerk: *Gas Engine*. Required of all C.E. Seniors, second term, 3 hours a week. Prerequisite courses: Physics, Applied Mechanics (analytical and graphical), Chemistry. Professor McMillan and Mr. Dain.

65. Hydraulics. Theory. Required of all C.E. Seniors, first term, 2 hours a week. Professor Smith or Mr. Dain.

66. Water Works. Outline of the planning and construction of systems of water supply. Lectures. Reference book: Turneaure and Russell: *Public Water Supplies*. Required of all C.E. Seniors, second term, 2 hours a week. Professor Smith.

67. Graphics. Stereotomy. Descriptive geometry applied to the solution of such problems in stone cutting as are likely to arise in railroad or architectural construction. A lecture and drafting-room course. Required of all C.E. Seniors, first term, 2 hours a week. Professor Willson.

68. Sewerage and Drainage. The sewerage and drainage of buildings and towns, including sewage purification and disposal. Folwell: *Sewerage*. Required of all C.E. Seniors, second term, 2 hours a week. Professor McMillan.

69. Geodesy. Railroad engineering: preliminary and location surveys of routes, staking out for construction, and estimating cost. Field and office work.

Searles: *Field Engineering*. Reference book: Wellington: *Railway Location*. Required of all C.E. Seniors, first term, 3 hours a week. Professor Harris.

70. Roads. Traction on different surfaces. Considerations affecting the value of a road improvement; the location of country roads; road construction and maintenance. Pavements, materials and qualities, tests of materials. Spalding. Required of all C.E. Seniors, second term, 2 hours a week. Professor Harris.

72. Masonry Structures. The theory of the stability of masonry structures. Required of all C.E. Seniors, second term, 2 hours a week. Professor Smith and Mr. Dain.

74. Methods of Construction. Study of the methods employed in the building of engineering structures. Foundations. Baker: *Masonry Construction*. Required of all C.E. Seniors, second term, 2 hours a week. Professor Smith and Mr. Dain.

75. Laboratory Work in Civil Engineering. The erection of structures, the gauging of water, the testing of motors and of materials of construction. Required of all C.E. Seniors, first term, 2 hours a week. Professor Smith and Mr. Dain.

76. Laboratory Work in Civil Engineering. Selected tests. Required of all C.E. Seniors, second term, 1 hour a week. Professor McMillan and Mr. Dain.

DEPARTMENT OF ELECTRICAL ENGINEERING

PROFESSORS BRACKETT AND MC CLENAHAN, AND MR. THOMAS

The course in Electrical Engineering is designed to furnish instruction in the theory of electricity and in its application in the arts and industries. The special course of study in electricity occupies two years of graduate work.

REQUIREMENTS FOR ADMISSION

I. Graduates of the University, either in the Academic Department or in the John C. Green School of Science, who have taken satisfactory courses in French and German and in mathematics, including calculus and differential equations, will be admitted to the course in Electrical Engineering without examination.

II. Applicants who are graduates of other institutions must satisfy the professors in charge that they have sufficient knowledge of mathematics, including calculus and differential equations, of physics and chemistry, and of French and German, to enable them to pursue the course with profit.

III. Applicants who are not graduates of any institution may be admitted to the course if they show their fitness for it on examination in mathematics, including calculus, differential equations, analytical mechanics, mechanical drawing and descriptive geometry, general and analytical chemistry, physics, geology, astronomy, English language and literature, French and German.

IV. Students not candidates for a degree may be received by special arrangement with the professors in charge.

COURSE OF STUDY

First Year:—The Mathematical Theory of Electricity. Mascart et Joubert: *L'Electricité et le Magnétisme;* with references to Faraday, Maxwell, Hertz, et al.

Electrical Measurements. Gray: *Absolute Measurements in Electricity and Magnetism;* Ewing: *Magnetic Induction in Iron and Other Metals.* Two days a week are left free for elementary electrical measurements, with reference to Stewart and Gee, Kohlrausch, Gray, Ewing, et al. Theory of Electro-Motors. Thompson: *Dynamo-Electric Machinery. Machine Designing.*

Strength of Materials, three hours a week; Mechanism, two hours a week; and Theory of Machines, four hours a week for half the year, are taken with the classes in the Civil Engineering Department.

Second Year:—Study of the Physics of the Ether as Related to Electric and Magnetic Phenomena. Drude: *Physik des Aethers.*

Theory and practical applications of alternate currents. Fleming: *Alternate Current Transformer;* Thompson: *Polyphase Electric Currents;* with reference to Ferraris, Steinmetz, et al.

Transformer and machine designing.

Collateral lectures on the technical applications of electricity in telegraphy, telephony, electro-metallurgy and electro-chemistry, electric lighting, transmission of power, etc.

Advanced Electrical Measurements and Electrical Testing.

In addition to these courses a meeting is held once a week, at which reports on the current electrical literature are made by the students.

DEGREE

On completion of this course the student is entitled to apply for the degree of Electrical Engineer. With his application he must present a thesis on some subject connected with electrical science.

	Monday		Tuesday		Wednesday	
8	Math III	Y D 17	Math III	Y D17	Math I	G D28
	Math V	H D16	Math V	H D16	Math III	Y D17
	Math VI	St D6	Math VI	St D6	Math V	H D16
	Math VII	Mc S1	Math VII	Mc S1	Math VI	St D6
	Math IX	Sw D18	Math IX	Sw D18	Math VII	Mc S1
	Math XII	Mo M20	Math XII	Mo M20	Math IX	Sw D18
					Math XIII	Mo M20
					Math XIX	E D19
9	Math VIII	Mo M24	Math VIII	Mo M24	Math II	E D19
	Math XI	Sw D18	Math XI	Sw D18	Math VIII	Mo M24
	Math XIV	Mc S1	Math XIV	Mc S1	Math X	Sw D18
	Math XVI	St D6	Math XVI	St D6	Math XV	Mc S1
	Math XVII	H D16	Math XVII	H D16	Math XVI	St D6
	Math XX	Y D17	Math XX	Y D17	Math XVIII	H D16
					Math XX	Y D17
10	A Latin I	Wct M20	A Latin I	Wct M20	A Latin I	
	A Latin III	N M4	A Latin III		A Latin III	N M4
	A Latin V		A Latin V	M M30	A Latin V	M M30
	A Latin VII	S D12	A Latin VII	S D12	A Latin VII	S D12
	A Greek VI		A Greek II		A Greek IV	
	S Physics I	S23	S Physics I	S23	S Physics I	S23
	S French I	D7	S French I	D7	S French I	D7
	S French III	D14	S French III	D14	S French III	D14
	S German I	D26	S German I	D26	S German I	D26
11	A Latin II		A Latin II	M M30	A Latin II	M M20
	A Latin IV	O M2	A Latin IV		A Latin IV	O M2
	A Latin VI	Wct M20	A Latin VI	Wct M20	A Latin VI	
	A Greek I		A Greek V		A Greek III	
	E Chemistry	C	E Chemistry	C	E Chemistry	C
	L Physics	S23	L Physics	S23	L Physics	S23
	L French II	D7	L French II	D7	L French II	D7
	L German II	D26	L German II	D26	L German II	D26
12	A Greek III	G M30	A Greek I	P M24	A Greek I	P M24
	A Greek V	H D26	A Greek III	G M30	A Greek V	H D26
	L Latin XI		L Latin XI	K M32	L Latin XI	K M32
	L Latin XIII	A D12	L Latin XIII		L Latin XIII	A D12
	L Latin XV	J D 13	L Latin XV	J D13	L Latin XV	J D13
1	A Greek II	E M4	A Greek IV	F M26	A Greek II	E M4
	A Greek IV	F M26	A Greek VI	P M24	A Greek VI	P M24
	A Greek VII	J D13	A Greek VII	J D13	A Greek VII	J D13
	L Latin XII		L Latin XII	A D12	L Latin XII	A D12
	L Latin XIV	O M30	L Latin XIV		L Latin XIV	O M30
	E Graphics	S 10	E Graphics	S10		
2	E Graphics	S 10	E Graphics	S10		

A—For candidates for A. B. S—For candidates for C. E., B. S., or Litt. B.

	Thursday		Friday		Saturday	
8	Math I	G D28	Math I	G D28	Math I	G D28
	Math III	Y D17	Math XI	Sw D18	Math XI	Sw D18
	Math V	H D16	Math XIII	Mo M20	Math XIII	Mo M20
	Math VI	St D6	Math XIV	Mc S1	Math XIV	Mc S1
	Math VII	Mc S1	Math XVII	H D16	Math XVII	H D16
	Math IX	Sw D18	Math XIX	E D19	Math XIX	E D19
	Math XIII	Mo M20				
	Math XIX	E D19				
9	Math II	E D19	Math II	E D19	Math II	E D19
	Math VIII	Mo M20	Math X	Sw D18	Math X	Sw D18
	Math X	Sw D18	Math XII	Mo M20	Math XII	Mo M20
	Math XV	Mc S1	Math XV	Mc S1	Math XV	Mc S1
	Math XVI	St D6	Math XVIII	H D16	Math XVIII	H D16
	Math XVIII	H D16				
	Math XX	Y D17				
10	A Latin I	Wct M 20	A English I	M20	A English I	M20
	A Latin III	N M4	A English III	M4	A English III	M4
	A Latin V	M M30	A English V	M30	A English V	M30
	A Latin VII		A English VII	D7	A English VII	D7
	E French V	M2	E French V	M2	E French V	M2
	S French VII	D12	S French VII	D12	S French VII	D12
	S French IX	D13	S French IX	D13	S French IX	D13
	S French XI	D14	S French XI	D14	S French XI	D14
	S German V	M32	S German V	M32	S German V	M32
	S German VII	D6	S German VII	D6	S German VII	D6
11	A Latin II	M M30	A English II	M20	A English II	M20
	A Latin IV	O M2	A English IV	M2	A English IV	M2
	A Latin VI	Wct M20	A English VI	M30	A English VI	M30
	S French VIII	D12	A English VIII	D7	A English VIII	D7
	S French X	D13	S French VIII	D12	S French VIII	D12
	S French XII*	D 14	S French X	D13	S French X	D13
	S German VI	M32	S French XII*	D14	S French XII*	D14
	S German VIII	D6	S German VI	M32	S German VI	M32
			S German VIII	D6	S German VIII	D6
12	A Greek I	P M24	A French XV	D12	A French XV	D12
	A Greek III	G M30	A French XVII	D13	A French XVII	D13
	A Greek V	H D26	A German XV	M32	A German XV	M32
	L Latin XI	K M32	A German XVII	D26	A German XVII	D26
	L Latin XIII	A D12	S English XI	M24	S English XI	M24
	L Latin XV		S English XIII	M2	S English XIII	M2
			S English XV	M30	S English XV	M30
			S English XVII	M4	S English XVII	M4
1	A Greek II	E M4	A French XVI	D13	A French XVI	D13
	A Greek IV	F M26	A French XVIII*	D14	A French XVIII*	D14
	A Greek VI	P M24	A German XVI	M32	A German XVI	M32
	A Greek VII		A German XVIII	D26	A German XVIII	D26
	L Latin XII	A D12	S English XII	M24	S English XII	M24
	L Latin XIV	O M30	S English XIV	M2	S English XIV	M2
			S English XVI	M30	S English XVI	M30
			S English XVIII	M4	S English XVIII	M4
2						

E—For candidates for C. E. L—For candidates for B. S. or Litt. B.

9-17-07

	MONDAY		TUESDAY		WEDNESDAY	
8	Math v	Mc (B) S1	Math v	Mc (B) S1	Math III	G D28
	Math VII	S D19	Math VII	S D19	Math IV	Y D29
	Math x	U S31	Math x	U S31	Math v	Mc (B) S1
	Math XVIII	Mo (T) S7	Math XVIII	Mo (T) S7	Math VII	S D19
					Math IX	U S31
					Math XVII	V D18
					Math XVIII	Mo (T) S7
9	Math A	F D19	Math A	F D19	Math I	V (F) D19
	Math II	B (T) S1	Math II	B (T) S1	Math II	B (T) S1
	Math VI	H S28	Math VI	H S28	Math VI	H S28
	Math VIII	U S31	Math VIII	U S31	Math VIII	U S31
	Math XI	Mo D18	Math XI	Mo D18	Math XII	Mo D18
	Math XIII	Mc S7	Math XIII	Mc S7	Math XIII	Mc S7
					Math XV	Y (V) D29
					Math XVI	G D28
10	A Latin I		A Latin I	Wct D16	A Latin I	Wct D16
	A Latin III	E D17	A Latin III		A Latin III	E D17
	A Latin V	H D16	A Latin V	H D17	A Latin V	
	A Greek IV		A Greek II		S Physics I	S23
	S Physics I	S23	S Physics I	S23	S French I	D12
	S French I	D12	S French I	D12	S French III	D18
	S French III	D18	S French III	D18	S German I	D26
	S German I	D26	S German I	D26	E Chemistry I	C12
11	A Latin II	F D17	A Latin II	F D17	A Latin II	
	A Latin IV	G D16	A Latin IV		A Latin IV	G D17
	A Latin VI		A Latin VI	Wct D16	A Latin VI	Wct D16
	A Greek III		A Greek V			
	E Chemistry	C	E Chemistry	C	E Chemistry II	C12
	L Physics	S23	L Pbysics	S23	L Physics	S 23
	L French II	D12	L French II	D12	L French II	D12
	L German II	D26	L German II	D26	L German II	D26
12	A Greek I	R D4	A Greek I	R D4	A Greek I	R D4
	A Greek V	I D12	A Greek III	L D12	A Greek III	L D13
	L Latin XI		L Latin XI	Al D16	A Greek V	I D12
	L Latin XIII	A D16	L Latin XIII		L Latin XI	Al D16
	E Geodesy	S10	E Geodesy	S 10	L Latin XIII	A D17
					E Chemistry III	C12
1	A Greek II	K D12	A Greek IV	J D13	A Greek II	K D12
	A Greek VI	R D4	A Greek VI	R D4	A Greek IV	J D13
	L Latin XII	B D16	L Latin XII		A Greek VI	R D4
	L Latin XIV		L Latin XIV	Al D16	L Latin XII	B D17
					L Latin XIV	Al D17
2						

A—For candidates for A. B. L—For candidates for B. S., or Litt. B.

	THURSDAY		FRIDAY		SATURDAY	
8	Math III	G D28	Math III	G D28	Math III	G D28
	Math IV	Y D29	Math IV	Y D29	Math IV	Y D29
	Math V	Mc (B) S1	Math IX	U S31	Math IX	U S31
	Math VI	H S28	Math XI	Mo D19	Math XI	Mo D19
	Math VII	S D19	Math XIII	Mc S1	Math XVII	V D18
	Math IX	U S31	Math XVII	V D18		
	Math XVII	V D18				
	Math XVIII	Mo (T) S7				
9	Math I	V (F) D19	Math I	V D19	Math I	V D19
	Math II	B (T) S1	Math X	U S31	Math X	U S31
	Math VIII	U S31	Math XII	Mo D18	Math XII	Mo D18
	Math XII	Mo D18	Math XV	Y (V) D29	Math XV	Y (V) D29
	Math XV	Y (V) D29	Math XVI	G D28	Math XVI	G D28
	Math XVII	G D28				
10	A Latin I	Wct D16	A English I	D16	A English I	D16
	A Latin III	E D17	A English III	D17	A English III	D17
	A Latin V	H D14	A English V	D12	A English V	D12
	A Greek VI		A English VII	D19	A English VII	D19
	E French V	D7	E French V	D7	E French V	D7
	S French VII	D4	S French VII	D4	S French VII	D4
	S French IX	D5	S French IX	D5	S French IX	D5
	S French XI	D6	S French XI	D6	S French XI	D6
	S German V	D26	S German V	D26	S German V	D26
	S German VII	D13	S German VII	D13	S German VII	D13
11	A Latin II	F D17	A English II	D14	A English II	D14
	A Latin IV	G D14	A English IV	D17	A English IV	D17
	A Latin VI	Wct D16	A English VI	D16	A English VI	D16
	A Greek I		A English VIII	D19	A English VIII	D19
	S French VIII	D6	S French VIII	D6	S French VIII	D6
	S French X	D5	S French X	D5	S French X	D5
	S French XII	S1	S French XII	S1	S French XII	S1
	S German VI	D7	S German VI	D7	S German VI	D7
	S German VIII	D13	S German VIII	D13	S German VIII	D13
12	A Greek III	L D4	A French XV	D26	A French XV	D26
	A Greek V	I D12	A French XVII	D12	A French XVII	D12
			A German XV	D4	A German XV	D4
	L Latin XI	Al D16	A German XVII	D16	A German XVII	D16
	L Latin XIII	A D17	S English XI	D13	S English XI	D13
	E Chemistry IV	C12	S English XIII	D5	S English XIII	D5
			S English XV	D17	S English XV	D17
			S English XVII	D28	S English XVII	D28
1	A Greek II	K D12	A French XVI	D26	A French XVI	D26
	A Greek VI	J D13	A French XVIII *	D12	A French XVIII *	D12
			A German XVI	D4	A German XVI	D4
	L Latin XII	B D17	A German XVIII	D16	A German XVIII	D16
	L Latin XIV	Al D16	S English XII	D13	S English XII	D13
			S English XIV	D5	S English XIV	D5
			S English XVI	D17	S English XVI	D17
			S English XVIII	D28	S English XVIII	D28
2						

E—For candidates for C. E. S—For candidates for C. E., B. S., or Litt. B.

2-1-'07

	MONDAY	TUESDAY	WEDNESDAY
8	B English I, III, V, VII, IX, XI, XIII, XV, M28 E Graphics	B English I M2 B English III M4 B English V M30 B English VII M32 B English IX D26 B English XI D7 B English XIII D5 B English XV D4 E Graphics	B English I M2 B English III M4 B English V M30 B English VII M32 B English IX D26 B English XI D7 B English XIII D5 B English XV D4 E Graphics
9	B English II, IV, VI, VIII, X, XII, XIV, XVI M28 B Chemistry C E Graphics S10	B English II M26 B English IV M4 B English VI M30 B English VIII M32 B English X M48 B English XII D7 B English XIV D5 B English XVI D4 B Chemistry C E Graphics S10	B English II M26 B English IV M4 B English VI M30 B English VIII M32 B English X M48 B English XII D7 B English XIV D5 B English XVI D4 B Chemistry C E Graphics S10
10	B French I M32 B French III M24 B German II M26 B German IV D13 B Beg Fr V D4 B Beg Fr VII D5 B Beg German VI D6 B Calculus V Y D17 E Math I T S7 E Mineralogy II, III	B French I M32 B French III M24 B German II M26 B German IV D13 B Beg Fr V D4 B Beg Fr VII D5 B Beg Germ VI D6 B Calculus V Y D17 E Math I T S7 E Mineralogy II III	B French I M32 B French III M24 B German II M26 B German IV D13 B Beg Fr V D4 B Beg Fr VII D5 B Beg Germ VI D6 B Calculus V Y D17 E Math I T S7 E Mineralogy II, III
11	B French II M32 B French IV D17 B German I M48 B German III D13 B Beg Fr VI D4 B Beg Germ V D6 B Hon Math F D19 B Calculus VII B D18 E Math IV T S7 E Mineralogy II, III	B French II M32 B French IV D17 B German I M48 B German III D13 B Beg Fr VI D4 B Beg Germ V D6 B Hon Math F D19 B Calculus VII B D18 E Math IV T S7 E Mineralogy II, III	B French II M32 B French IV D17 B German I M48 B German III D13 B Beg Fr VI D4 B Beg Germ V D6 B Hon Math F D19 B Calculus VII B D18 E Math IV T S7 E Mineralogy II, III
12	A Latin I N M26 B Hon Math F D19 B Calculus VI S D6 E Math II B D 18	A Latin I N M26 B Hon Math F D19 B Calculus VI S D6 E Math II B D 18 E Math III G D 28	A Latin I B Hon Math F D19 B Calculus VI S D6 E Math II B D18 E Math III G D28
1	A Latin II I M2 E Mineralogy I, IV	A Latin II I M2 E Mineralogy I, IV	A Latin II E Mineralogy I, IV
2	E Mineralogy I, IV	E Mineralogy I, I V	E Mineralogy I, IV

A—For candidates for A. B. B—For candidates for A.B., B. S., or Litt. B.

	THURSDAY		FRIDAY		SATURDAY	
8	A Greek I		A Greek I	R M26	A Greek I	R M26
	A Greek III	S M30	A Greek III		A Greek III	S M30
	A Greek V	W M24	A Greek V	W M24	A Greek V	
	E Physics I	S23	E Physics I	S23	E Physics I	S23
9	A Greek II	W M24	A Greek II	W M24	A Greek II	
	A Greek IV	S M30	A Greek IV		A Greek IV	S M30
	A Greek VI		A Greek VI	R M26	A Greek VI	R M26
	L Physics II	S23	L Physics II	S23	L Physics II	S23
	B Hon Physics	S10	B Hon Physics	S10	B Hon Physics	S10
	E Math I	T S7	E Math I	T S7	E Math I	T S7
	E Math III	G D28	E Math III	G D28	E Math III	G D28
10	A Logic I	D8	A Logic I	D8	A Logic I–XIV	D8
	A Logic III	D4	A Logic III	D4		
	A Logic V	D5	A Logic V	D5		
	A Logic VII	D16	A Logic VII	D16		
	A Logic IX	D17	A Logic IX	D17		
	A Logic XI	D26	A Logic XI	D26		
	L Latin I	I M24	L Latin I	I M24	L Latin I	
	L Graphics		L Graphics		L Graphics	
	E Math IV	T S7	E Math IV	T S7	E Math IV	T S7
	E Math II	B D18	E Math II	B D18		
	E Geodesy I, III	S 12	E Geodesy I, III	S 12	E Geodesy I, III	S 12
11	A Logic II	D8	A Logic II	D8		
	A Logic IV	D4	A Logic IV	D4		
	A Logic VI	D5	A Logic VI	D5		
	A Logic VIII	D16	A Logic VIII	D16		
	A Logic X	D17	A Logic X	D17		
	A Logic XII	D26	A Logic XII	D26		
	A Logic XIV	D19	A Logic XIV	D19		
	L Latin II	N M26	L Latin II	N M26	L Latin II	
	E Geodesy I, III	S 10, 12	E Geodesy I, III	S 10, 12	E Geodesy I, III	S 10, 12
12	A Physics I	S23	A Physics I	S23	A Physics I	S23
	L Logic I	D8	L Logic I	D8	L Logic I–IX	D8
	L Logic III	D4	L Logic III	D4		
	L Logic V	D5	L Logic V	D5		
	L Logic VII	D16	L Logic VII	D16		
	L Logic IX	D17	L Logic IX	D17		
	E Geodesy II, IV	S 1	E Geodesy II, IV	S 1	E Geodesy II, IV	S 1
1	A Physics II	S23	A Physics II	S23	A Physics II	S23
	L Logic II	D8	L Logic II	D8		
	L Logic IV	D4	L Logic IV	D4		
	L Logic VI	D5	L Logic VI	D5		
	L Logic VIII	D16	L Logic VIII	D16		
	E Geodesy II, IV	S1	E Geodesy II, IV	S 1	E Geodesy II, IV	S1
2						

E—For candidates for C. E. L—For candidates for B. S. or Litt. B.

	Monday		Tuesday		Wednesday	
8	B History I	D12	B History I	D12	B History I	D12
	B History III	D13	B History III	D13	B History III	D13
	B History V	D14	B History V	D14	B History V	D14
	B History VII	D17	B History VII	D17	B History VII	D17
	B History IX	D8	B History IX	D8	B History IX	D8
	E Graphics	S10	E Graphics	S10	E Graphics	S10
			B Psych XIII	D5	B Psych XIII	D5
9	B History II	D12	B History II	D12	B History II	D12
	B History IV	D13	B History IV	D13	B History IV	D13
	B History VI	D14	B History VI	D14	B History VI	D14
	B History VIII	D17	B History VIII	D17	B History VIII	D17
	B History X	D8	B History X	D8	B History X	D8
	B Chemistry	C	B Chemistry	C	B Chemistry	C
	E Graphics	S10	E Graphics	S10	E Graphics	S10
10	B French I	D6	B French I	D6	B French I	D6
	B French III	D4	B French III	D4	B French III	D4
	B German II	D7	B German II	D7	B German II	D7
	B German IV	D28	B German IV	D28	B German IV	D28
	B Beg French V	D19	B Beg French V	D19	B Beg French V	D19
	B Beg French VII	D13	B Beg French VII	D13	B Beg French VII	D13
	B Beg German VI	D29	B Beg German VI	D29	B Beg German VI	D29
	B Calculus IV	S S1	B Calculus IV	S S1	B Calculus IV	S S1
	E Geology	N	E Geology	N	E Geology	N
11	B French II	D6	B French II	D6	B French II	D6
	B French IV	D4	B French IV	D4	B French IV	D4
	B German I	D7	B German I	D7	B German I	D7
	B German III	D28	B German III	D28	B German III	D28
	B Beg French VI	S3	B Beg French VI	S3	B Beg French VI	S3
	B Beg German V	D29	B Beg German V	D29	B Beg German V	D29
	B Hon Math	F D19	B Hon Math	F D19	B Hon Math	F D10
	Calculus I	B S7	Calculus I	B S7	Calculus I	B S7
	Calculus III	H S28	Calculus III	H S28	Calculus III	H S28
	Calculus VII	S S1	Calculus VII	S S1	Calculus VII	S S1
12	B Hon Math	F D19	B Hon Math	F D19	B Hon Math	F D19
	Calculus II	S S1	Calculus II	S S1	Calculus II	S S1
	Calculus V	B S7	Calculus V	B S7	Calculus V	B S7
	A Greek I		A Greek I, II	Pr D26	A Greek I, II	Pr D26
1	A Greek II		Calculus VI	S7	Calculus VI	S7
	Calculus VI	S 7				
2						

A—For candidates for A. B. B—For candidates for A. B., B. S., or Litt. B.

	THURSDAY		FRIDAY		SATURDAY	
	A Latin III		A Latin I, II, III	W D14	A Latin I, II, III	W D14
			A Latin IV		A Latin V	
	E Physics I	L S23	E Physics I	L S23	E Physics I	L S23
8						
	A Latin VI		A Latin IV, V, VI	W D14	A Latin IV, V, VI	W D14
			A Latin I		A Latin II	
	L Physics II	L S23	L Physics II	L S23	L Physics II	L S23
	B Hon Physics	M S10	B Hon Physics	M S10	B Hon Physics	M S1
9	C E Math I, III	T S7	C E Math I	T S7	C E Math III	T S7
	C E Math II, IV	H S28	C E Math II	H S28	C E Math IV	H S28
	A Psych I	D8	A Psych I	D8	A Psych I-XIII	D8
	A Psych III	S10	A Psych III	S10		
	A Psych V	S3	A Psych V	S3		
	A Psych VII	N Ed10	A Psych VII	N Fd 10		
	A Psych IX	N Ed17	A Psych IX	N Ed 17		
10	L Latin I, II	W D14	L Latin I, II	W D14	L Latin I	
	L Graphics	S	L Graphics	S	L Graphics	S
	C E Math V, VII	H S28	C E Math V	H S28	C E Math VII	H S28
	C E Math VI, VIII	T S7	C E M th VI	T S7	C E Math VIII	T S7
	A Psych II	D26	A Psych II	D26		
	A Psych IV	D29	A Psych IV	D29		
	A Psych VI	S3	A Psych VI	S3		
	A Psych VIII	D13	A Psych VIII	D12		
	A Psych X	N Ed 10	A Psych X	N Ed 10		
11	A Psych XII	N Ed 17	A Psych XII	N Ed 17	L Latin II	
	L Graphics	S	L Graphics	S	L Graphics	S
	C E Geodesy I	S12	C E Geodesy I	S12	C E Geodesy I	S12
	C E Geodesy II	S28	C E Geodesy II	S28	C E Geodesy II	S28
	A Psych XI	S31	A Psych XI	S31		
	A Physics I	S23	A Physics I	S23	A Physics I	S23
	L Psych I	D8	L Psych I	D8	L Psych I-IX	D8
	L Psych III	D6	L Psych III	D6		
	L Psych V	D7	L Psych V	D7		
12	L Psych VII	D29	L Psych VII	D29		
	L Psych IX	N Ed 10	L Psych IX	N Ed 10		
	C E Geodesy III	S12	C E Geodesy III	S12	C E Geodesy III	S12
	C E Geodesy IV	S28	C E Geodesy IV	S28	C E Geodesy IV	S28
	A Physics II	S23	A Physics II	S23	A Physics II	S23
	L Psych II	D6	L Psych II	D6		
	L Psych IV	D7	L Psych IV	D7		
	L Psych VI	D29	L Psych VI	D29		
1	L Psych VIII	N Ed 10	L Psych VIII	N Ed 10		
2						

E—For candidates for C. E. L—For candidates for B. S., or Litt. B. (2-1-'07)

JUNIOR FIRST TERM SCHEDULE, 1907-1908

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Greek, 31 M24 (Hon Phys E L&R) Italian, 35 M48	Greek, 31 M24 (Hon Phys E L&R) Italian, 35 M48	Greek, 31 M24 (Hon Phys E L&R) Italian, 35 M48	Adv Psych, 33 M4	Adv Psych, 33 M4	Adv Psych, 33 M4
9	Jurispr, 33 M46 Biology, 31 S25 Hn Math, Geom TS7 Math, 31	Jurispr, 33 M46 Biology, 31 S25 Hn Math, Geom TS7 Math, 31	Jurispr, 33 M46 Biology, 31 S25 Hn Math, Geom TS7 Math, 31	History, 31 M46 Theor Chem, 31 C	History, 31 M46 Theor Chem, 31 C	History, 31 M46 Theor Chem, 31 C
10	Art & Arch, 31 M2 Hn Math, Calc BD18 German, 31 HM48	Art & Arch, 31 M2 Hn Math, Calc BD18 German, 31 HM48	Art & Arch, 31 M2 Hn Math, Calc BD18 German, 31 HM48	An Mech I ED19 An Mech II VD29 An Mech III GD28 Germ, 33-Goethe D2 Mineralogy 33 C9 Archit 33 (Hist. 31 M48) French, 31 M26	An Mech I ED15 An Mech II VD29 An Mech III GD28 Germ, 33-Goethe D2 Mineralogy 33 C9 Archit 33 (Hist. 31 M48) French, 31 M26	An Mech I ED19 An Mech II VD29 An Mech III GD28 Germ, 33-Goethe D2 Mineralogy 33 C9 Archit 33 (Hist. 31 M48) French, 31 M26
11	Eng Phil D 2 Geology, 31 N	Eng Phil D 2 Geology, 31 N	Eng Phil D 2 Geology, 31 N	English Lit, 31 M28 Astronomy, 31 S25	English Lit, 31 M28 Astronomy, 31 S25	English Lit, 31 M28 Astronomy, 31 S25
12	Hist Philos, 31 M46 Spanish, 37 M2&4 Physics 31 S 23 Hon Phys D TS10	Hist Philos, 31 M46 Spanish, 37 M2&4 Physics 31 S23 Hon Phys D TS10	Hist Philos, 31 M46 Spanish, 37 M2&4 Physics 31 S23 Hon Phys D TS10	Economics, 35 D6&7 Graphics S Hon An Mech JD18	Economics, 35 D6&7 Graphics S Hon An Mech JD18	Econ, 35 M46 Graphics S Hon An Mech JD18
1	Qual Analysis, 33 C	Qual Analysis, 33 C	Qual Analysis, 33 C	Latin, 33 M20 Biology, 33 Lab Graphics S (Econ D 6 & 7)	Latin, 33 M20 Biology, 33 Lab Graphics S (Econ D 6 & 7)	Latin, 33 M20 Biology, 33 Lab Graphics S
2-6						

9-17-07

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Graph Statics Greek 32 D26 Mineralogy 34 C	Graph Statics Greek 32 D26 Mineralogy 34 C	Graph Statics Greek 32 D26 Mineralogy 34 C	Adv Logic 34 a D4 French 32 D6 Exp Psych 34 b Lab Geology 32	Adv Logic 34 a D4 French 32 D6 Exp Psych 34 b Lab Geology 32	Adv Logic 34 a D4 French 32 D6 Exp Psych 34 b Lab Geology 32
9	Const Gov 34 D21 Biology 32 S25	Const Gov 34 D21 Biology 32 S25	Const Gov 34 D21 Biology 32 S25	History 32 D8 Chem 32 b (Biol) C9	History 32 D8 Chem 32 b (Biol) C9	History 32 D8 Chem 32 b (Biol) C9
10	Art & Arch 32 S25 Geom & Diff Eq S7 Italian 36 D5	Art & Arch 32 S25 Geom & Diff Eq S7 Italian 36 D5	Art & Arch 32 S25 Geom & Diff Eq S7 Italian 36 D5	Anal Mech I D18 Anal Mech II D28 German 32 D2	Anal Mech I D18 Anal Mech II D28 German 32 D2	Anal Mech I D18 Anal Mech D28 German 32 D2
11	Eng Phil 34 D2&5 Phys Geog 34 N Geodesy S12	Eng Phil 34 D2&5 Phys Geog 34 N Geodesy S12	Eng Phil 34 D2&5 Phys Geog 34 N Geodesy S12	English Lit 32 D2 Architecture 34 M Chem 32a(Chem) C9	English Lit 32 D2 Architecture 34 M Chem 32a(Chem) C9	English Lit 32 D2 Architecture 34 M Chem 32a(Chem) C9
12	Hist Philos 32 D8 Spanish 38 D6 & 7 Physics 32 S23	Hist Philos 32 D8 Spanish 38 D6 & 7 Physics 32 S23	Hist Philos 32 D8 Spanish 38 D6 & 7 Physics 32 S23	Economics 36 D18 (Econ II D19)	Economics 36 D18 (Econ II D19)	Economics 36 D21
1	Quan Analysis 34 C	Quan Analysis 34 C	Quan Analysis 34 C	Latin 34 D14 Botany 34 S25 (Econ III D18) (Econ IV D19)	Latin 34 D14 Botany 34 S25 (Econ III D18) (Econ IV D19)	Latin 34 D14 Botany 34 S25
2-6						

(2-1-07)

SENIOR FIRST TERM SCHEDULE, 1907–1908

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Spanish, 47 M26 Chemistry, 45 C Mineralogy, 47 C	Spanish, 47 M26 Chemistry, 45 C Mineralogy, 47 C	Spanish, 47 M26 Chemistry, 45 C Mineralogy, 47 C	Geology, 41 N Mid H G, 43 M2	Geology, 41 N Mid H G, 43 M2	Geology, 41 N Mid H G, 43 M2
9	Biology, 41 Lab Outlines Phil, 41 M2 Roman Law, 49 M20 Grk Pr Life, 45 Bibl Lit D2	Biology, 41 Lab Outlines Phil, 41 M2 Roman Law, 49 M20 Grk Pr Life, 45 Bibl Lit D2	Biology, 41 Lab Outlines Phil, 41 M2 Roman Law, 49 M20 Grk Pr Life, 45 Bibl Lit D2	Economics, 49 M28 French Lit, 41 M48 Biology, 43 S25	Economics, 49 M28 French Lit, 41 M48 Biology, 43 S25	Economics, 49 M28 French Lit, 41 M48 Biology, 43 S25
10	English, 41 M28 Greek, 43 Chemistry, 43 C Mathematics, 41 D18 Old French, 43	English, 41 M28 Greek, 43 Chemistry, 43 C Mathematics, 41 D18 Old French, 43	English, 41 M28 Greek, 43 Chemistry, 43 C Mathematics, 41 D18 Old French, 43	English, 43 M46 Sanskrit Physics, 43 RS10	English, 43 M46 Sanskrit Physics, 43 RS10	English, 43 M46 Sanskrit Physics, 43 RS10
11	Ethics, 45 M4 Latin, 45 M24 Politics, 47 M28	Ethics, 45 M4 Latin, 45 M24 Politics, 47 M28	Ethics, 45 M4 Latin, 45 M24 Politics, 47 M28	Greek, 41 M24 Math 43 VD29 Amer Hist, 43 M46 Art & Arch, 43 Exp Psych, 43 Lab Fund Prob Phil M4	Greek, 41 M24 Math, 43 VD29 Amer Hist, 43 M46 Art & Arch, 43 Exp Psych, 43 Lab Fund Prob Phil M4	Greek, 41 M24 Math, 43 VD29 Amer Hist, 43 M46 Art & Arch, 43 Exp Psych, 43 Lab Fund Prob Phil M4
12	Art & Arch, 41 German, 41 M20 History, 41 M28 Physics, 41 Lab Paleontology, 45 N	Art & Arch, 41 German, 41 M20 History, 41 M28 Physics, 41 Lab Paleontology, 45 N	Art & Arch, 41 German, 41 M20 History, 41 M28 Physics, 41 Lab Paleontology, 45 N Theor Pr Mot, 41 S13	Politics, 45 M28 Latin, 47 M20 Theor Pr Mot, 41 S13	Politics, 45 M28 Latin, 47 M20 Theor Pr Mot, 41 S13	Politics, 45 M28 Latin, 47 M20
1	Italian, 45 M20 Histology, 45	Italian, 45 M20 Histology, 45	Italian, 45 M20 Histology, 45 Theor Pr Mot, 41 S13	Geology, 43 N Pract Astron, 41 Obs Theor Pr Mot, 41 S13	Geology, 43 N Pract Astron, 41 Obs Theor Pr Mot, 41 S13	Geology, 43 N Pract Astron, 41 Obs
2–6	Chem, 45 C	Chem, 45 C	Chem, 45 C	Chem, 41 C Pract Astron, 41 Obs	Chem, 41 C Pract Astron, 41 Obs	Chem, 41 C Pract Astron, 41 Obs

9-17-07

SENIOR SECOND TERM SCHEDULE 1906–1907

	MONDAY		TUESDAY		WEDNESDAY		THURSDAY		FRIDAY		SATURDAY	
8	Spanish 48 (Prac Econ)	D7 D2	Spanish 48 (Prac Econ)	D7 D2	Spanish 48 (Prac Econ)	D7 D2	Geology 42 German 42 Mathematics 44	N D7 S	Geology 42 German 42 Mathematics 44	N D7 S	Geology 42 German 42 Mathematics 44	N D7 S
9	Biology 42 English 42 Roman Law 50 Philosophy 42	Lab D2 D16 D4	Biology 42 English 42 Roman Law 50 Philosophy 42	Lab D2 D16 D4	Biology 42 English 42 Roman Law 50 Philosophy 42	Lab D2 D16 D4	Physics 44 Economics 50 French Lit 42 Vert Pal 44	D7 D4 D2 N	Physics 44 Economics 50 French Lit 42 Vert Pal 44	D7 D4 D2 N	Physics 44 Economics 50 French Lit 42 Vert Pal 44	D7 D4 D2 N
10	Greek 44 Biblical Lit Pr Mot 42 Art & Arch 46 Mineralogy 48	L D8 S13 C	Greek 44 Biblical Lit Pr Mot 42 Art & Arch 46 Mineralogy 48	L D8 S13 C	Greek 44 Biblical Lit Pr Mot 42 Art & Arch 46 Mineralogy 48	L D8 S13 C	Art & Arch 44 English 44 Sanskrit	D21	Art & Arch 44 English 44 Sanskrit	D21	Art & Arch 44 English 44 Sanskrit (Econ II	D21 S3)
11	Ethics 46 Latin 46 Politics 48 Pr Mot 42 Old French Phys Chem 44 Mathematics 42	D8 D14 D18 S13 D13 C S31	Ethics 46 Latin 46 Politics 48 Pr Mot 42 Old French Phys Chem 44 Mathematics 42	D8 D14 D18 S13 D13 C S31	Ethics 46 Latin 46 Politics 48 Pr Mot 42 Old French Phys Chem 44 Mathematics 42	D8 D14 D18 S13 D13 C S31	Greek 42 Amer Hist 44 Philos 44	L D8 D4	Greek 42 Amer Hist 44 Philos 44	L D8 D4	Greek 42 Amer Hist 44 (Econ III Philos 44	L D8 S3) D4
12	Art & Arch 42 Paleontology 46 History 42 German 44 Physics 42	S25 N D2 D29 S28	Art & Arch 42 Paleontology 46 History 42 German 44 Physics 42	S25 N D2 D29 S28	Art & Arch 42 Paleontology 46 History 42 German 44 Physics 42	S25 N D2 D29 S28	Politics 46 Latin 48 Hist Nat Phil	S10 D14 S25	Politics 46 Latin 48 Hist Nat Phil	S10 D14 S25	Politics 46 Latin 48 Hist Nat Phil	S10 D14 S25
1	Italian 46 Chemistry 42	D7 C	Italian 46 Chemistry 42	D7 C	Italian 46 Chemistry 42	D7 C	Pract Astron 42 Chemistry 46 Geology 44	Obs C N	Pract Astron 42 Chemistry 46 Geology 44	Obs C N	Pract Astron 42 Chemistry 46 Geology 44	Obs C N
2							Pract Astron 42	Obs	Pract Astron 42	Obs	Pract Astron 42	Obs

(2–1–'07)

C. E. JUNIOR AND SENIOR FIRST TERM SCHEDULE, 1907-1908

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8	J Graph Stat S16	J Geodesy S12	J Geodesy S12	J Astronomy S25	J Astronomy S25	J Astronomy S25
	S Geodesy S12	S Hydraulics S13	S Hydraulics S13	S Graphics S	S Graphics S	
9	J Graph Stat S16	J Geodesy S12	J Geodesy S12	J An Mech IV VD29	J An Mech IV VD29	J An Mech IV VD29
	S Geodesy S12	S Hydraulics S13	S Hydraulics S13	S Graphics S	S Graphics S	S C E Lab I
10	J Graphics S10	J Graphics S10	J Graph Stat S16	J An Mech I ED19 J An Mech II VD29 J An Mech III GD28	J An Mech I ED19 J An Mech II VD29 J An Mech III GD28	J An Mech I ED19 J An Mech II VD29 J An Mech III GD28
	S Fr Struct S13	S Fr Struct S13	S Fr Struct S13	S Fr Struct S13	S Fr Struct S13	S C E Lab I
11	J Graphics S	J Graphics S	J Graph Stat S16			
	S Fr Struct S13	S Fr Struct S13	S Fr Struct S13	S Fr Struct S13	S Fr Struct S13	S C E Lab II
12	J Mats Const S1	J Graph Stat S16	J Mats Const S1	J Geodesy S12	J Geodesy S12	
	S Geodesy S12	S Geodesy S12	S Th Pr Mots S13	S Th Pr Mots S13	S Th Pr Mots S13	S C E Lab II
1	J Mats Const S1	J Graph Stat S16	J Mats Const S1	J Geodesy S12	J Geodesy S12	
	S Geodesy S12	S Geodesy S12	S Th Pr Mots S13	S Th Pr Mots S13	S Th Pr Mots S13	
2-5				J Geodesy S12	J Geodesy S12	
	S Geodesy S12	S Geodesy S12		S C E Lab I	S C E Lab II	

Junior subjects are indicated by J before the subject. Senior subjects are indicated by S before the subject. 9-17-07

C. E. JUNIOR AND SENIOR SECOND TERM SCHEDULE, 1906–1907

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8			J Geodesy S12 S Constr S13	J Geodesy S12 S Constr S13	J Geodesy S12 S Mas Str S13	J Astronomy 1 Obs S Mas Str S13
9	J Geodesy S12	J Geodesy S12 S Water Wks S13	J Geodesy S12 S Constr S13	J Geodesy S12 S Constr S13	J Geodesy S12 S Mas Str S13	J Astronomy 11 Obs S Mas Str S13
10	J Graphics S10 S Pr Motors S13	J Graphics S10 S Pr Motors S13	J Graphics S10 S Pr Motors S13	J An Mech 1 E D18 J An Mech 11 G D28 S Sewerage S13	J An Mech 1 E D18 J An Mech 11 G D28 S Sewerage S12	J An Mech 1 E D18 J An Mech 11 G D28 S Water W S13
11	J Graphics S10 S Pr Motors S13	J Graphics S10 S Pr Motors S13	J Graphics S10 S Pr Motors S13	J An Mech 111 V D28 J An Mech 1V E D18 S Sewerage S13	J An Mech 111 V D28 J An Mech 1V E D18 S Sewerage S13	J An Mech 111 V D28 J An Mech 1V E D18
12	S Roads S12	J Mech Mat 1 S31 S Roads S12	J Mech Mat 1 S31 S Fr Str S13	J Astronomy 1 Obs S Fr Str S13	J Mech Mat 1 S31 S Fr Str S13	J Mech Mat 1 S31
1	S C E Lab	J Mech Mat 11 S31	J Mech Mat 11 S31 S Fr Str S13	J Astronomy 11 Obs S Fr Str S13	J Mech Mat 11 S31 S Fr Str S13	J Mech Mat 11 S31
2	J Geodesy S12 S C E Lab	J Geodesy S12 S C E Lab			J Astronomy Obs	

Junior subjects are indicated by J before the subject. Senior subjects are indicated by S before the subject. (2-1-07)

THE GRADUATE SCHOOL

The affairs of the Graduate School are administered by a Dean, with an Advisory Committee of the University Faculty. The committee consists of the President and Dean, *ex-officio*, and Professors Brackett, Scott, Magie, Fine, Thompson, Hibben, Harper, and Butler. All inquiries should be addressed to Professor West, Dean of the Graduate School.

Only those who possess a Bachelor's degree from Princeton University, or from another University maintaining a similar standard in distinctively liberal studies for the Bachelor's degrees, may be enrolled on their diplomas as graduate students. Graduates of other universities and colleges may be admitted as graduate students only upon examination. They may, however, on presentation of their diplomas and other satisfactory credentials, be enrolled without examination as undergraduates in the class to enrolment in which their proficiency entitles them.

Each graduate student attending instruction regularly, and passing the examinations, is entitled to a certificate stating what he has done, signed by the President in behalf of the University.

Students by pursuing these courses may also qualify themselves for the degree of Master of Arts. The degree of Doctor of Philosophy is conferred according to the regulations prescribed under the heading "Degrees."

No person in candidacy for a higher degree in another institution may at the same time be in candidacy for any degree in this University.

All graduate students, except Fellows, shall pay the

sum of five dollars for each course each term. The total maximum charge is not to exceed twenty dollars a term. Undergraduate courses of lectures or instruction are also open to graduate students, but undergraduates are not admitted to the graduate courses. Extra charges will be made for certain laboratory courses, the amount to depend on the nature of the course pursued.

All applications for enrolment should be made to the Dean of the Graduate School.

THE GRADUATE HALL

The house and grounds of "Merwick," an estate of eleven acres on Bayard Lane, within five minutes' walk of the University, has been secured as a residential hall of the Graduate School and placed in the immediate charge of Professor Howard Crosby Butler, of the University Faculty. The number of graduate students taken in residence is limited to twelve, and six more are admitted to the table. Through the liberality of several friends of the University the equipment and maintenance of "Merwick" have been so far provided for that the expenses of graduate students who are admitted to its privileges will be moderate. All applications for information or admission should be made to the Dean of the Graduate School.

GRADUATE COURSES OF INSTRUCTION

The courses which are open to *graduate students only* are detailed in the list of courses offered in each Department and are as follows:

PHILOSOPHY

101. Theories of Knowledge in Modern Philosophy. Historical and critical. Lectures and readings. First term, 3 hours a week. (Given in 1908-1909.) Professor Ormond.

102. Causation and Purpose in Science and Philosophy. Lectures and readings. Second term, 3 hours a week. (Given in 1908-1909.) Professor Ormond.

103, 104. The Philosophy of Kant. Readings and discussions. Both terms, 3 hours a week. Professor Norman Smith.

105, 106. Experimental Psychology. Laboratory course, consisting largely in research work, with weekly conference for original reports. Both terms, 3 hours a week. Professor Warren.

107, 108. Seminary in General Philosophy. Topic for the year: Hobbes and Spinoza. Conducted by reading, theses, and discussions. Both terms. Professor Ormond.

109, 110. Psychological Seminary. Conducted by reading, theses, and discussions. Topic to be determined in consultation with class; open to graduate students in philosophy and psychology. Both terms. Professor Warren or Professor Norman Smith.

111. Theory of Mental Measurements. First term, 3 hours a week. Professor Warren.

113, 114. Readings in German Philosophy. Both terms, 3 hours a week. Hegel's *Logik*. Professor Hibben.

115, I. Hedonism and the Ethics of Naturalism. First term, 3 hours a week. Professor G. S. Patton.

116, I. Self-realization and the Ethics of Idealism. Second term, 3 hours a week. Professor G. S. Patton.

115, II. History of English Ethics. First term, 3 hours a week. Professor G. S. Patton.

116, II. Problems in Contemporary Ethics. Second term, 3 hours a week. Professor G. S. Patton.

117, 118. Aesthetics. A systematic study of the principal problems of aesthetics, based upon a critical examination of the classical works on the subject and including a detailed study of recent tendencies and

recent contributions. Both terms, 3 hours a week. Professor A. L. Jones.

119, 120. The Philosophy of Evolution. In this course the purpose is to consider the philosophical problems involved in both the biological and psychological aspects of ontogenetic and phyletic development. Both terms, three hours a week. Professor Spaulding.

121. The Nature of Judgment. This course will present the nature of judgment in its philosophical, logical, psychological, and linguistic aspects, aiming to acquaint the student with the standard literature of the subject. First term, 3 hours a week. Lectures and reading. Dr. Sheldon.

122. Principles of Science. A study of those terms and relations of science which are logically and metaphysically fundamental. Second term, 3 hours a week. Professor Marvin.

HISTORY, POLITICS, AND ECONOMICS

101, 102. The French Revolution. A study of the causes of the movement. Ability to read French is required. Both terms, 3 hours a week. Professor Shipman.

103, 104. England in the Nineteenth Century. A study of constitutional changes, the advance in the colonial system, and the development of the imperial idea. Both terms, 3 hours a week. Professor Myers.

105. The Teutonic Colonies in America during the Seventeenth Century. First term, 3 hours a week. Professor Dawson.

106. Causes of the American Revolution. A study of the conditions prevalent in the American Colonies of the British Empire in the first half of the eighteenth

century, and of the circumstances surrounding the raising of the imperial issue after the close of the Seven Years' War. Second term, 3 hours a week. Professor C. W. Spencer.

108. The Evolution of the Federal Constitution of the United States. A study of the adoption of the constitution, its early interpretation, and some aspects of the later development of opinion relative to it. Second term, 3 hours a week. Professor Dawson.

109. History of the Doctrine of Nullification. First term, 3 hours a week. Professor McElroy.

111, 112. The American Civil War. The conduct of the war by the Federal Government, and the mutual relation of the Departments during the war. Both terms, 3 hours a week. Professor Corwin.

113, 114. History of Spanish America; 1700-1900. A seminary course in the South American struggle for independence. A rapid reading knowledge of Spanish and French is required. Hours to be arranged with the instructor. Both terms, 3 hours a week.

115, I. (Classics 107, I.) The Private Law Orations of Cicero, with a study of the legal institutions of his time. First term, 3 hours a week, alternating yearly with 115, II. Professor Westcott.

115, II. (Classics 107, II.) Sources of Early Roman Law. Bruns: *Fontes Juris Romani Antiqui;* Lindsay: *Latin Inscriptions.* First term, 3 hours a week, alternating yearly with 115, I. Professor Westcott.

117, 118. History of the English Common Law. Both terms, 3 hours a week. Professor McIlwain.

119. International Law and Diplomacy. A study of cases, with particular reference to the diplomatic history of the United States and the part played by the United States in the development of international law. First term, 3 hours a week. Professor Elliott.

120. Advanced Economic Theory. An exposition of economic theory; essentially a contrast of the classical and post-classical theories of distribution. Seminary course for competent graduates. Second term, 3 hours a week. Professor Daniels.

121, 122. History of Economics. A resumé of economic ideas from the Middle Ages to modern times. Both terms, 3 hours a week. Professor Adriance.

124. Economic Regulation. A study of Factory Acts, Tenement Acts, Limited Liability Acts, and Employer's Liability Acts, conducted in connection with the pro-seminary in 1907-1908. Second term, 3 hours a week. Professor Wyckoff.

125. History and Theory of Transportation. A survey of the improvements in methods and instruments of transportation since the application of steam, with the consequent changes in legal and economic theories relating to public carriers. The questions of state control, ownership, and operation are treated with special reference to American conditions. A reading knowledge of French and German will be helpful. First term, 3 hours a week. (Given in connection with the pro-seminary in 1907-1908.) Professor Meeker.

126. The Industrial Evolution of the United States. An investigation in the development of typical American industries, domestic and foreign commerce, labor organizations, and similar problems. Second term, 3 hours a week. Professor Bogart.

ART AND ARCHÆOLOGY

101. Greek Architecture. This course will consist of a critical study of Vitruvius's *De Architectura*. First term, 3 hours a week. Professor Marquand.

103, 104. Christian Architecture. A practical study of ecclesiastical architecture, from the fourth century to the twelfth, including the subjects of the construction, design, and details of the early Christian, Byzantine, and Romanesque periods, with exercises in drawing. Requires elementary knowledge of the history of Christian art and Mediæval history, and ability to read French. Both terms, 3 hours a week. Professor Butler.

106. Renaissance Architecture. A practical study of the architecture of the Renaissance in Europe, with exercises in design. Requires knowledge of the elements of architecture; of shades, shadows, and perspective; and ability to read French. Second term, 3 hours a week. Professor Butler.

107, 108. Pausanias. A study of the topography and monuments of Greece, as described by Pausanias and illustrated by the results of recent excavations. Both terms, 3 hours a week. Professor Tonks.

109. Roman Topography. A study of the topography and monuments of ancient Rome. First term, 3 hours a week. Professor Morey.

INDO-IRANIAN

101, 102. Advanced Sanskrit. Reading of classical and Vedic Sanskrit in the first and second terms. Windisch: *Zwölf Hymnen des Rig Veda;* or Peterson: *Handbook to the Study of the Rig Veda, Part II.* Both terms, 3 hours a week. Professor Winans or Professor Robbins.

103, 104. Avesta. Grammar and reading of selected texts. Jackson: *Avesta Grammar, Avesta Reader, first series;* Geldner: *Avesta;* Mills: *Gâthâs.* Both terms, 3 hours a week. Professor Robbins.

CLASSICS

101. Aristophanes. Selected plays. First term, 3 hours a week. Professor Robbins.

102. Historical Latin and Greek Grammar. Phonology and morphology. Lectures and readings. Brugmann, Hirt, Myer, Stolz, and Lindsay. Second term, 3 hours a week. Professor Robbins.

103. Greek Inscriptions. Lectures will be given on the history of classical epigraphy, the alphabet, and the methods of interpretation. Practical exercises will be held in reading from casts and squeezes. Inscriptions of special historical value, chiefly those of the fifth century, will be interpreted and discussed. First term, 3 hours a week. Professor Prentice.

104. Thucydides. Critical study of the history of Thucydides. Second term, 3 hours a week. Professor Winans.

105, 106. Mediæval Latin Literature. A course involving the extensive reading of representative writers. Both terms, 3 hours a week. Dean West.

107, 1. (Hist., Politics, and Econom., 115, 1.) The Private Law Orations of Cicero, with a study of the legal institutions of his time. First term, 3 hours a week, alternating yearly with 107, 11. Professor Westcott.

107, 11. (Hist., Politics, and Econom., 115, 11.) Sources of Early Roman Law. Bruns: *Fontes Juris Romani Antiqui;* Lindsay: *Latin Inscriptions.* First term, 3 hours a week, alternating yearly with 107, 1. Professor Westcott.

109. Cicero. Study of date, sources, method, purpose, etc., of various works, and of the development of the author's style in his successive periods. Results of study to be embodied in weekly papers to be handed in and discussed. First term, 3 hours a week. Professor David Magie, Jr.

110. Palæography and Text-Criticism. Reading of Latin manuscripts, search for material, collation, formation of genealogies, and construction of text. Lectures and direction leading to theses. Second term, 3 hours a week. Dr. Richardson.

111, 112. Aristotle's Athenian Constitution. In addition to the interpretation of the text of this treatise extensive collateral reading will be assigned in the historians and biographers. Topics in Athenian constitutional history and in political institutions will be assigned for report, and members of the class will be encouraged to undertake original studies in these fields. Both terms, 3 hours a week. Professor Capps.

113, 114. The Greek Theatre. The general field of Greek scenic antiquities will be covered by lectures and reports; but attention will be directed particularly to unsolved problems in connection with the history and structure of the theatre, technical terms, scenic appliances, the dramatic contests, actors and acting, and the like. The course will be given a practical bearing on the reading and scenic analysis of one or more plays by each member of the class. Both terms, 3 hours a week. Professor Capps.

ENGLISH

101, 102. Historical English Grammar. Both terms, 3 hours a week. Given in 1907-1908, and alternate years following, by Professor Griffin; given in 1908-1909, and alternate years following, by Professor Craig.

103, 104. Old English Poetry. Both terms, 3 hours a week. Given in 1907-1908, and alternate years following, by Professor Gerould; given in 1908-1909, and alternate years following, by Professor Spaeth.

105, 106. Chaucer. Both terms, 3 hours a week. Professor Root.

107, 108. Elizabethan Drama. Both terms, 3 hours a week. Professor Parrott.

109, 110. Middle English Romances. Both terms, 3 hours a week. Given in 1908-1909, and alternate years following. First term: Professor Gerould. Second term: Professor Griffin.

111, 112. The Beginnings of the English Drama. Both terms, 3 hours a week. Given in 1907-1908, and alternate years following. Professor Craig.

113, 114. Milton. Both terms, 3 hours a week. Given in 1907-1908, and alternate years following. Professor Osgood.

115. Germanic Origins of English Speech. First term, 3 hours a week. Given in 1907-1908, and alternate years following. Professor Spaeth.

117. Shakespeare. First term, 3 hours a week. Given in 1908-1909, and alternate years following. Professor Parrott.

119. Modern Romantic Drama. First term, 3 hours a week. Given in 1908-1909, and alternate years following. Professor Harper.

121. History of Criticism. First term, 3 hours a week. Given in 1909-1910, and alternate years following. Professor Harper.

MODERN LANGUAGES

Germanic Section

101. Old High German. Grammar, reading, and lectures on the historical development of the German language. Knowledge of modern German and Middle High German required, and some knowledge of Gothic useful. Braune: *Althochdeutsches Lesebuch;*

Braune: *Althochdeutsche Grammatik.* First term, 3 hours a week. Professor Hoskins.

102. Gothic. Grammar and reading. Wright: *Gothic Primer;* Bernhardt: *Vulfila.* Second term, 3 hours a week. Professor Priest.

103. Middle High German. Grammar, lectures, and reading. The course is designed both to furnish a foundation for the historical study of modern German and to serve as an introduction to the study of Germanic philology. Proficiency in modern German is required. Paul: *Mittelhochdeutsche Grammatik;* Michels: *Mittelhochdeutsches Elementarbuch;* Weinhold: *Mittelhochdeutsches Lesebuch.* First term, 3 hours a week. Professor Hoskins.

104. Historical German Grammar. Introduction, phonology, morphology. Requires a knowledge of Gothic, Old and Middle High German. Lectures. References to Paul: *Grundriss der Germanischen Philologie;* Streitberg: *Urgermanische Grammatik.* Second term, 3 hours a week. Professor Hoskins.

106. Old Icelandic. Grammar, lectures, and reading. For advanced students. Noreen: *Altisländische und Altnorwegische Grammatik;* Kahle: *Altisländisches Elementarbuch;* Ranisch: *Die Volsungasaga.* Second term, 3 hours a week. Professor Hoskins.

107. The Influence of the Literature of England upon the Literature of Germany in the Eighteenth Century. First term, 3 hours a week. Dr. Richards.

110. History of the Drama in Germany. Second term, 3 hours a week. Professor Beam.

112. History of Lyric Poetry in Germany. Second term, 3 hours a week. Professor Blau.

113. History of the Novel in Germany. First term, 3 hours a week.

Romanic Section

101, 102. Old French Philology. Lectures on old French etymology, morphology, and syntax. Both terms, 3 hours a week. To alternate with 103, 104. Professor Buffum.

103. Folk-Latin. This course will begin with a brief historical sketch of the Romance nations from the time of the Roman colonization. The Roman and the Teutonic elements in Romance civilization will be contrasted. The phonology, morphology, and syntax of Folk-Latin will then be traced from the earliest period to the rise of the Romance literatures. Especial attention will be devoted to the contrast between Folk-Latin and classic Latin and to the Folk-Latin background of the Romance languages. First term, 3 hours a week. To alternate with 101. Professor Buffum.

104. French Dialects. The dialects of northern France or of the *Langue d'Oil*, will be traced from the earliest monuments to the present day. Introductory lectures will be given on the general theories of the origin and growth of dialects, especially with reference to the Romance group. The geographical position, phonology, morphology, and literature of the individual dialects of northern France will then be considered, especial attention being given to the study of illustrative texts. A knowledge of old French is required. Second term, 3 hours a week. To alternate with 102. Professor Buffum.

106. French Syntax. An historical survey of the field of French syntax. Second term, 3 hours a week. Mr. Mathews.

107. The Renaissance in France. First term, 3 hours a week. Professor Moore.

109. The National Epic to the End of the Twelfth Century. First term, 3 hours a week. Professor Collins.

110. The Breton Epic. Second term, 3 hours a week. Professor Critchlow.

111. The French Drama Prior to the Cid. First term, 3 hours a week. Mr. Stuart.

112. The Development of Literary Criticism in France. Second term, 3 hours a week. Professor Gauss.

113, 114. Old Spanish readings, including a study of the phonology, morphology and historical syntax of the old Spanish language. Both terms, 3 hours a week. Professor Northup.

MATHEMATICS

101. Theory of Substitutions. Elementary theory of substitutions, of groups of substitutions and rotations. Application of the theory of groups to the solution of algebraic equations. First term, 3 hours a week. Professor Gillespie.

102. Theory of Invariants. The theory of invariants and covariants of binary quantics, developed in the symbolic notation of Clebsch. Second term, 3 hours a week. Professor Gillespie.

103. Vector Analysis. A study of the points, lines and circles arising out of the 3-line, 4-line, and 5-line, in terms of conjugate or circular coordinates. Representation of the point equation of a curve by means of a complex parameter and of the line equation in conjugate coordinates. First term, 3 hours a week. Dr. MacInnes.

105. Theory of Functions of a Complex Variable. In 1907-8 this course will be supplementary to Mathematics 42, as defined in the list of courses, so that together they will cover the same ground as Honors Course *b* to be given later. First term, 3 hours a week. Professor Young.

106. Elliptic Functions. Periodic functions. General theorems on elliptic functions. Functions of Weierstrass and Jacobi. Theta and modular functions. Addition theorems and transformations. Applications to the integral calculus, geometry and mechanics. Second term, 3 hours a week. Dr. Stromquist.

107. Theory of Algebraic Functions. Introduction to the theory of algebraic numbers and to the theory of algebraic functions of a single variable. First term, 3 hours a week. Dean Fine.

108. Calculus of Variations. A discussion of the historical examples which led to the development of the calculus of variations. General theory for plane curves, defined in the form $y=f(x)$ and also in the parametric representation. Isoperimetric problems and problems in space. Double integrals. Second term, 3 hours a week. Professor Bliss.

109. Projective Geometry. In 1907-8 this course will cover the same ground as the second part of Honors Course *a*. First term, 3 hours a week. Professor Veblen.

110. Foundations of Geometry. A consideration of various sets of postulates for arithmetic and geometry, and a study of relations existing between fundamental propositions. The development of arithmetic and geometry from a set of postulates. Second term, 3 hours a week. Dr. Moore.

111. Analytic Projective Geometry. Involutions of points on a line. Homogeneous coordinates in one and two dimensions. Clebsch's symbolic notation. Projective properties of conics. Theory of higher plane curves. First term, 3 hours a week. Dr. Hun.

112. Partial Differential Equations. Examples illustrating the determination of solutions of partial differ-

ential equations by initial conditions. Kowaleski proofs of the existence of solutions. The elements of the theory of homogeneous and non-homogeneous linear equations and of complete systems of equations. An introduction to the study of general equations of the first and second orders from the standpoint of the theory of characteristics. Second term, 3 hours a week. Professor Bliss.

113. Infinitesimal Geometry. Historical readings from some of the memoirs of Monge, Dupin, Gauss, Weingarten, Darboux, and Bianchi. First term, 3 hours a week. Professor Thompson.

114. Infinitesimal Geometry. Finite and infinitesimal deformation of surfaces. The general theory as developed by Bonnet, Beltrami, Darboux, and Weingarten. The deformations of ruled surfaces, the surfaces of constant curvature, and the quadrics with particular reference to the theory of the transformations of these surfaces. Second term, 3 hours a week. Professor Eisenhart.

115, 116. [Physics 119, 120.] Molecular Dynamics and the Kinetic Theory of Gases. Generalized dynamical coordinates, and introduction to the methods of statistical mechanics. Physical bases of the kinetic theory. Physical properties of gases interpreted by the kinetic theory. Discussion of the current problems and unsolved difficulties of the theory. Both terms, 3 hours a week. Professor Jeans.

ASTRONOMY

101, 102. Theoretical Astronomy. Reading course. Calculation of Orbits. Watson: *Theoretical Astronomy;* Oppolzer: *Bahnbestimmung;* Klinkerfues: *Theoretische Astronomie.* Both terms, 3 hours a week. Dr. Dugan.

103, 104. Practical Astronomy. Theory of Instruments. Thorough study of the determination of time, latitude, and azimuth; work with the equatorial on double stars, variable stars, and the sun. Chauvenet: *Practical Astronomy.* Both terms, 3 hours a week. Dr. Dugan and Dr. Russell.

105. Theory and Method of Reduction of Photographic Star Plates. Determination of star-places from photographic plates, stellar parallax, and proper motion. First term, 3 hours a week. Dr. Russell.

106. Spectroscopy. The theory and use of the spectroscope as an implement of astronomical investigation, with practical work in the observatory. Second term, 3 hours a week. Dr. Russell.

107, 108. Celestial Mechanics. An introduction to the general problems of the motions of the heavenly bodies. Lectures and collateral readings in the treatise of Tisserand. Both terms, 3 hours a week. Professor Lovett.

109, 110. Modern Theories of Celestial Mechanics. An account of the recent developments inspired by the work of Poincaré. Lectures, supplemented by the treatises of Poincaré and Charlier. Both terms, 3 hours a week. Professor Lovett.

PHYSICS

101, 102. Theory of Electricity. Reading course. First term, Mascart et Joubert: *L'Electricité et le Magnétisme;* second term, Drude: *Die Physik des Aethers.* Both terms, 3 hours a week. Professor Brackett.

103, 104. Absolute Measurements in Electricity and Magnetism. Reading course. Gray: *The Theory and Practice of Absolute Measurements in Electricity and Magnetism.* Both terms, 3 hours a week. Professor McClenahan.

105. Theory of Heat. Laws of thermodynamics. Carnot's theorem. Absolute scale of temperature. The thermodynamic functions. Thermodynamic properties of homogeneous bodies. The ideal gas. Change of state. System of three phases. Critical temperature. Van der Waals's equation. Physical properties of solutions. Lectures. Buckingham: *Theory of Thermodynamics*. First term, 3 hours a week. Professor Magie.

107. Radioactivity. The discovery and preparation of radioactive substances. Nature and properties of radiation. Disintegration theory of radioactivity. Application of the phenomena of radioactivity to other fields. Rutherford: *Radioactivity*. First term, 3 hours a week. Professor Adams.

109, 110. Electron Theory and Atomic Structure. The development of the electron theory, based on Maxwell's equations, together with Lorentz's work and the idea of electro-magnetic mass. The application of the conception of the electron to the material furnished by the different branches of physics and especially by the science of optics, the conduction of electricity through gases, radioactivity, spectroscopy, and chemistry. Both terms, 3 hours a week. Professor Richardson.

111. Theory of Elastic Solids. The physical properties of actual solids. The ellipsoids of strain and stress and their respective properties. Potential energy of strained solids. Problem of Saint Vénant. Special problems of flexure and tension. Distentional and compressional waves in solids of two dimensions. Double refraction and the Fresnel wave front. First term, 3 hours a week. Professor Loomis.

112. Theory of Potential. Universal mass-attraction. The Laplace equation and potential function. Role

of the potential function in attraction and repulsion. Surface distribution of attractive matter. Equation of Poisson and Green's theorem. Attraction due to an ellipsoid. Applications of the potential theory to problems in magnetism and electricity. Second term, 3 hours a week. Professor Loomis.

114. Electromagnetic Theory of Light. Reflection, refraction, dispersion, absorption. Rotatory polarization. Magneto-optics. Optical properties of metals. Laws of radiation. The relative motion of ether and matter. Second term, 3 hours a week. Professor Trowbridge.

115, 116. Theory and Practice of Exact Measurements. This course is intended for students who have already had training in general laboratory practice. It is designed to instruct them in more refined methods of observation, and especially to train them in the use of those instruments which are frequently employed in research. Both terms, 3 hours a week. Professor Loomis.

118. Atmospheric Electricity. Introduction to theory of ionized gases. Methods of observation. Atmospheric ionization, its causes and distribution. Atmospheric potential gradient. General electrical phenomena. Detailed discussion of work of various observers. Second term, 3 hours a week. Professor Cooke.

119, 120. (Mathematics 115, 116.) Molecular Dynamics and the Kinetic Theory of Gases. Generalized dynamical coordinates, and introduction to the methods of statistical mechanics. Physical bases of the kinetic theory. Physical properties of gases interpreted by the kinetic theory. Discussion of the current problems and unsolved difficulties of the theory. Both terms, 3 hours a week. Professor Jeans.

The physical laboratory is open throughout the week to graduate students.

CHEMISTRY

101, 102. Advanced Quantitative Analysis and Research in Inorganic Chemistry. Both terms, 3 hours a week. Professor McCay.

104. The Rare Elements, especially in their relations to minerals and rocks; including spectroscopic and other special methods of analysis. Second term, 3 hours a week. Prerequisite course: Quantitative Analysis. Professor Cornwall.

105, 106. Organic Chemistry. Lectures upon special topics, accompanied by the reading and discussion of the literature. Both terms, 3 hours a week. Prerequisite course: Elements of Organic Chemistry. Professor Neher.

107, 108. Advanced Laboratory Work in Organic Chemistry. Preparations, special methods of analysis and research. Both terms, 3 hours a week. Professor Neher.

109. Electrochemistry. Lehfeldt: *Electrochemistry*. First term, 3 hours a week. Professor Hulett.

110. Chemical Dynamics. Mellor: *Chemical Dynamics;* Nernst: *Theoretical Chemistry*. Second term, 3 hours a week. Professor Hulett.

111, 112. Research work in Physical Chemistry, especially in the field of Electrochemistry. Both terms, 3 hours a week. Professor Hulett.

GEOLOGY

101. Economic Geology. First term, 3 hours a week. Professor Farr.

103, 104. Stratigraphical Geology. Research course. Field and laboratory work, involving study and descrip-

tion of the stratigraphy, palæontology, and structure of the sedimentary rocks of some particular district, terminating in the preparation of a report according to official standards. Given during the summer vacation and both terms, number of hours indefinite. Mr. van Ingen.

105, 106. Petrology. A more detailed study of the subject matter of course 48, together with research in some special branch of petrology. Laboratory, library, and field work continuing through one or more years. Both terms, number of hours indefinite. Professor Smyth.

BIOLOGY

101, 102. Cytology, Histogenesis, and Comparative Histology. Lectures and the practical study of the cell and its organs. Comparative studies of several tissues. Histogenesis, repair, and regeneration of the tissues. Methods of research and thesis work. Both terms, 3 hours a week. Professor Dahlgren.

103. Systematic Botany of the Vascular Plants. Structure as related to description and classification. Exercises in plant-description, rule of nomenclature, and the characters of the larger families of Angiosperms. Campbell: *University Text-book of Botany;* Bentham and Hookes: *Genera of Plants;* Engler and Prantl: *Pflanzen-Familien.* First term, 3 hours a week. Prerequisite to Biology 104.

104. Systematic Botany of the Vascular plants; second course. Gymnosperms and the vascular cryptogams; paleo-botany; phytogeography; field-work on the local flora. Campbell: *University Text-book of Botany;* Britton: *Manual of Flora;* Coulter and Chamberlain: *Gymnosperms and Angiosperms.* Second term, 3 hours a week. Prerequisite course: Biology 103.

105, 106. The Morphology and Phylogeny of the Organ Systems of Vertebrates. Research course, both terms, 3 hours a week. Professor McClure.

107. Comparative Morphology of the Invertebrates. First term, 3 hours a week. Professor Rankin.

109. Palæontology of Mammals. First term, 3 hours a week. Professor Scott.

110. Palæontology. The morphology and phylogeny of living and extinct vertebrates other than mammals. Second term, 3 hours a week. Professor Farr.

DIRECTORS OF THE SEMINARIES

1907-1908

Philosophical Seminary

Professor Hibben.

Economic Seminary

Professor Wyckoff.

Classical Seminary

Professor Robbins.

English Seminary

Professor Parrott.

Romance Seminary

Professor Moore.

Mathematical Seminary

Professor Jeans.

DEGREES

The following degrees are given for graduate study: Master of Arts and Doctor of Philosophy.

Master of Arts (A.M.)

The degree of Master of Arts may be conferred only upon those who hold a Bachelor's degree in the liberal arts and sciences from this or another approved college maintaining similar standards of liberal education, who shall also have devoted one year exclusively to graduate study in the University under the care of the Faculty, passing examinations upon the studies pursued; or shall have taken graduate courses in the University involving at least three hours a week each term for four terms and passed satisfactory examinations upon these courses, and on such extra reading as may be assigned. The degree may also be conferred upon a Bachelor of this University who shall have submitted to the Faculty a satisfactory dissertation, ordinarily of not less than five thousand words, on some literary, philosophical, or scientific subject previously approved by the Faculty, in April, not earlier than the third year after graduation. The fee for the degree is ten dollars, to be paid to the Dean of the Graduate School either before the candidate enters his last examinations, or else when his dissertation is handed in.

Every resident candidate shall announce to the Faculty, at least eight months before the degree can be conferred, the subjects which he intends to offer for examination. These subjects will be such as to form a consistent and well coördinated body of studies, and shall be subject to the approval of the Faculty.

Doctor of Philosophy (Ph.D.)

Subject to the regulations hereinafter stated, the degree of Doctor of Philosophy may be conferred upon any Bache-

lor of Princeton University, or of another approved institution whose academic course is equivalent to that pursued in Princeton, provided he has spent at least two years in exclusive study for the degree. One of the two years must be spent in Princeton, and the other either at Princeton or some other approved university.

REGULATIONS

I. *The Preliminary Examination.*—Every applicant before enrolment as a candidate for the Doctor's degree must pass an examination in Princeton on the first Wednesday following the opening of the academic year in September.

All applicants are examined on their ability to read ordinary French and German with a fluency sufficient to ensure their use as instruments of advanced study. They are also examined in the group of subjects connected with the general department of their proposed studies as detailed below:

A. In the Department of Philosophy: Ability to read Latin with a fluency sufficient to ensure its use as an instrument of advanced study; general psychology and logic; history of philosophy, ancient and modern; outlines of general history.

B. In the Department of Language and Literature: Outlines of general history; general knowledge of the English language and literature; ability to read Greek and Latin with a fluency sufficient to ensure their use as instruments of advanced study.

C. In one of the following six groups in the Department of Mathematics and Science:

1. In Mathematics: Elementary mathematics, including trigonometry, analytical geometry, the elements of the theory of equations, and the differential and integral calculus.

2. In Astronomy: Elementary mathematics, including trigonometry and analytical geometry; general astronomy; general physics.

3. In Physics: Elementary mathematics, including trigonometry and analytical geometry; general physics.

4. In Chemistry: General chemistry; general physics.

5. In Geology and Physical Geography: Elements of geology, zoology, and botany; general chemistry.

6. In Biology: Elements of zoology and botany; general chemistry.

II. *Chief Subject of Study.*—Every candidate, after passing his preliminary examination and before entering on his studies for the Doctor's degree, shall announce which one of the subjects in the appended list he selects as his chief subject, and shall thereon present to the Committee on the Graduate School for their approval a statement of the said chief subject to which he intends devoting himself while a candidate, with such fulness of explanation as the committee may require.

A. Department of Philosophy: Logic, psychology, ethics, metaphysics, history of philosophy, philosophy of religion, history, political economy, science of politics, jurisprudence, archæology and art.

B. Department of Language and Literature: Sanskrit, Greek, Latin, French, German, Italian, English (including old English).

C. Department of Mathematics and Science: Mathematics, astronomy, physics, chemistry, geology and physical geography, biology.

III. *The Subsidiary Subjects.*—In addition to the chief subject the candidate shall select two suitable subsidiary subjects and announce them to his examiners at some time in the first year of his course. One of these must be logic, psychology, ethics, or the history of philosophy, unless the candidate has chosen for his chief subject any one of those just named or else passes a satisfactory special examination on some one of them before entering upon his course as a candidate. The subsidiary subjects should be cognate to

the chief subject, but not included under it, and with this restriction any study enumerated in the lists of chief subjects may be taken, as well as the following which are not thus enumerated: physiological psychology, pedagogics.

IV. *The Thesis.*—The candidate shall present a thesis on some special topic in the department which constitutes his chief subject at least four months before the degree can be granted. The thesis is not ordinarily to exceed twenty thousand words in length, and shall not be accepted unless it contains evidence of thorough scholarship and ability to pursue original research, and, if accepted, it must be published by the candidate before the degree can be conferred. If the thesis is not accepted the candidate will not be admitted to the final examination.

V. *The Final Examination.*—After the thesis has been accepted the candidate may proceed to his final examination at a time appointed by the Committee on the Graduate School. This examination in the chief and subsidiary subjects is to be conducted orally in the presence of the Faculty and cannot be divided. In the chief subject, however, there may be a written examination in addition to the oral, if the examiner so requires. The candidate will be examined on his general knowledge of the chief subject, and will be expected to show in addition a minute and complete acquaintance with some one principal part of it.

VI. *The Conferring of the Degree.*—Candidates who pass the final examination are ordinarily recommended to the Trustees for the Doctor's degree, and if the Trustees adopt the recommendation, the degree is publicly conferred by the President at the annual Commencement in June. The degree of Doctor of Philosophy carries with it that of Master of Arts.

VII. *Fees.*—Those who apply for the degree shall pay the Dean of the Graduate School a fee of sixty dollars, in two instalments of thirty dollars, the first to be paid

when the candidate is enrolled and the second when he sends in his thesis.

ACADEMIC COSTUME

The regular academic costume, characteristic of the preceding degrees, and appropriate for official academic occasions and official appearances in public, consists of three parts: the gown, the hood, and the cap. With respect to each of these parts certain things are prescribed, in conformity with similar rules prescribed by other universities after a general conference. These regulations, given below, arrange a scheme which makes the academic costume a plain badge of the grade of the degree, of the faculty to which the degree pertains, and of the institution granting the degree.

GOWNS.—The *pattern* is that fixed by custom, with pointed sleeves for the Bachelor's degree, with long closed sleeves for the Master's degree, and with round open sleeves for the Doctor's degree. The *material* shall be worsted stuff for the Bachelor's degree, silk for the Master's and Doctor's degrees. The *color* shall be black. *Trimmings:* For the Bachelor's and Master's degrees the gown shall be untrimmed; for the Doctor's degrees the gown shall be faced all the way down the front with black velvet, with bars of the same across the sleeves; or the facings and crossbars may be of velvet of the same color as the edging of the hood, given below, being distinctive of the faculty to which the degree pertains. The facing is about three inches wide, the crossbars are three in number, on the outside front of each sleeve, and are about an inch wide and three inches apart.

HOOD.—The *pattern* is that fixed by custom. The *material*, the same as that of the gown (worsted for Bachelors, silk for Masters and Doctors). The *color* of the outside, black. The *lining* (which is distinctive of the institution

granting the degree), orange and black—the official colors of Princeton. It is the custom to have a black chevron upon an orange background. The *length* and *form* as follows: For the Bachelor's degree the length shall be three-fourths that for the Master's degree; for the Master's degree the length is that fixed by custom, not exceeding four feet; that for the Doctor's degree is of the same length, but shall have panels at the sides. It is the practice to have the panels edged with the color of the lining. The *trimmings*, binding, or edging (on the outside of the hood where it opens at the top), not more than six inches in width (two for Bachelors, three for Masters, five for Doctors), shall be of silk, satin, or velvet (velvet by custom); the color to be distinctive of the faculty to which the degree pertains, thus:

White—Faculty of Arts and Letters (A.B., A.M., Litt.B., Litt.D. or L.H.D.).

Scarlet—Faculty of Theology (B.D., D.D., S.T.D.).

Purple—Faculty of Law (LL.B., LL.D., J.U.D., D.C.L.).

Green—Faculty of Medicine (M.D.).

Dark Blue—Faculty of Philosophy (Ph.B., Ph.D.).

Gold Yellow—Faculty of Science (B.S., C.E., E.E., M.S., D.Sc.).

Brown—Faculty of Fine Arts.

Pink—Faculty of Music (Mus.B., Mus.D.).

CAP.—The cap is of the material and form fixed by custom, commonly called a trencher cap or mortar-board. The color shall be black. The Doctor's cap may be of velvet.

Each cap shall be ornamented with a long tassel attached to the middle of the top. The tassel of the Doctor's cap may be, in whole or in part, of gold thread.

FELLOWSHIPS

I. UNIVERSITY FELLOWSHIPS

These fellowships were founded by subscription and endowment and were intended by the founders to encourage study and promote original research in the several departments to which they are assigned. They are distinguished from the college fellowships by being open to the graduates of any American college, while the appointments are made, not by competitive examination, but by a comparison of the records presented by the applicants as to their previous collegiate standing, capacity, and character.

The fellowships are subject to the following regulations:

1. The fellowships are to be held for one year, but in cases of special merit they may be continued for a longer period by recommendation of the department and sanction of the Faculty.

2. The candidates shall be graduates of not more than five years' standing, possessing a satisfactory Bachelor's diploma in liberal studies from an accredited American college. An application should be accompanied with evidence of the qualifications of the applicant to pursue an independent course of study and investigation in the department concerned.

3. Appointment shall be made by the Faculty upon recommendation of the professors in the department interested, and shall be announced at Commencement.

4. All applications must be in the hands of the Dean of the Graduate School of the University on or before April 15, the appointees to hold their positions for a year from the following September.

It is deemed essential to the development of the Graduate School that the number of these fellowships should be largely increased. The following have already been founded:

J. S. K. Mathematical Fellowship Fund

This fund was founded in 1873 by a resident of New York City, who gave $11,000 for the purpose. Through accumulations of interest it now amounts to $16,500. In accordance with the deed of gift, "the income from this fund is to be devoted exclusively to fellowship purposes in the department of mathematics."

One fellow in mathematics will be appointed each year. Frequently a second fellow may be appointed. Appointments will be made on the basis of the records presented by the applicants as to their previous collegiate standing, capacity, and character. In addition, in the case of resident students, a competitive examination may be held in June on geometry, differential equations, and the theory of functions.

South East Club University Fellowship in Social Science

This fellowship, which pays to the holder $500 per annum, was founded by alumni of the classes of '76, '77, '78, and '79—former residents of the South Entry of East College.

Class of 1877 University Fellowship in Biology

This fellowship pays to the holder $400 per annum.

Charles Scribner University Fellowship in English Literature

This fellowship, which yields the holder $500 per annum, was founded in memory of Charles Scribner, of the class of 1840, by his son, Mr. Charles Scribner, of the class of 1875.

University Fellowship in Archæology

This fellowship pays to the holder $400 per annum.

Thaw Fellowship in Astronomy

This fellowship, which pays to the holder the income of $10,000, was founded by Mrs. William Thaw.

John Harding Page Classical Fellowship

This fellowship was established in 1900 by Mrs. James Laughlin, Jr., as a memorial to her father, Mr. John Harding Page. It is conferred by appointment of the Faculty and pays the holder the sum of $600.

Francis Hinton Maule Biological Fellowship

This fellowship was founded in 1901 by Mr. and Mrs. Francis I. Maule as a memorial of their son, Francis Hinton Maule, who was a student in the University during the years 1895-98. It is conferred by appointment of the Faculty and pays the holder the income of $10,000.

Class of 1860 Experimental Science Fellowship

This fellowship was founded in 1870 upon the sum of $10,000 subscribed by the class of 1860. A deficiency of income, resulting from the depreciation of the value of the securities in which the principal was invested and the lowering of the rate of interest, is paid, by the consent of the donor, from the income of the Magee Professorship of Mining and Engineering, founded by George J. Magee, Esq., of the class of 1860.

By action of the Board of Trustees, taken in 1904, this fellowship was constituted a University Fellowship, to be administered, under the regulations governing the administration of such fellowships, by the Departments of Physics and Chemistry.

The Porter Ogden Jacobus Fellowship

Established in 1905 by the generosity of Mrs. Clara Cooley Jacobus. This fellowship will be conferred upon

that regularly enrolled student of the graduate school who, in the judgment of the University Faculty, shall have evinced the highest scholarly excellence in his graduate work during the year. The appointee to this fellowship receives the income from an endowment of $25,000 and is expected to devote himself exclusively to study under the direction of the Faculty.

Harvard Fellowship in Chemistry

Founded in 1905 by the generosity of one of the Fellows of Harvard University. The holder of this fellowship receives the income of $10,000.

II. COLLEGE FELLOWSHIPS

Besides the degrees and honors conferred in the regular course, annual fellowships, competitive scholarships, and prizes are offered as special incentives to study, in the classes or departments with which they are connected.

Only matriculated students who are candidates for a degree are admitted to the competition for these fellowships, prizes, and scholarships, and no one is admitted to such competition who has failed to pass satisfactorily his last preceding examination in any of the departments.

No member of any class is allowed to compete for more than one of the fellowships or scholarships offered to that class.

The names of the fellows, scholars, and prizemen of each year are included in the Honor List for the year.

The funds for the competitive fellowships, prizes, and scholarships are special gifts, and the income is appropriated according to the specific instructions of the donor. They do not belong to the general funds of the University.

Every competitor must have been a member of the

University in full standing for at least two academic years previous to the fellowship examinations.

Every Fellow obtaining one of the competitive fellowships, the income of which is $400 or over, must devote his whole time for one year to study in the department for which the fellowship is provided, under the direction of the professors in that department. He must reside in Princeton, and pass two examinations on his work, unless by a vote of the Faculty he be allowed to study at an approved foreign university, in which case he shall from time to time furnish written reports of his work to the professors in his department. The result of every examination and the reports of work done abroad shall be immediately returned to the Faculty. Any Fellow, resident in Princeton, shall when called upon perform such duties in the department to which he belongs as may be assigned to him by the President at the request of the professors in that department. Any Fellow may be allowed to occupy free of cost in one of the University buildings a room assigned to him by the University authorities, and while occupying such room he shall be regarded as a resident officer of the University, and shall perform such duties in preserving order and decorum in the University edifices as the President and Dean of the Faculty may assign.

Chancellor Green Mental Science Fellowship

This fellowship, originally founded in 1870 upon the annual payment of $600 by the late Chancellor Henry W. Green, was permanently endowed in 1878 by a gift of $10,000 by his widow.

The income of this fund, at the current rate of interest, to be paid quarterly, will be awarded to that member of the Senior class who shall write the best essay on a subject to be assigned by the Department of Philosophy (to be given

in on or before June 1), and who shall stand highest at a special examination to be held in June.

The examination will include the philosophies of Plato, Aristotle, Descartes, Locke, Leibnitz, Hume, Reid, and Kant; also theoretical ethics, metaphysics, psychology, and inductive logic.

Boudinot Fellowships

These fellowships are founded in part upon a bequest of Dr. Elias Boudinot, of New Jersey.

The Historical Fellowship.—The sum of $200 per annum, to be paid quarterly, will be given to the holder of the fellowship, who shall be appointed by the Faculty, upon the nomination of the President and the professor or professors of history, for any period not exceeding three years, on condition that he reside in Princeton and devote his whole time to historical research, that he deliver such lectures and conduct such exercises as the President and professor or professors of history shall direct, and that he perform such other duties as may be assigned him in accordance with the general regulations respecting the duties of resident Fellows.

The Modern Language Fellowship.—Candidates for this fellowship must have completed the French and German courses of Junior and Senior years, amounting to at least three hours a week in each subject for both terms of both years. The sum of $200, to be paid quarterly, will be awarded to that member of the Senior class who shall pass the best examination in June on the following subjects:

In German—Translation from English into German; the reading at sight of German prose, historical and literary; history of German literature; Behaghel's *Die Deutsche Sprache*.

In French—Translation from English into French; a

knowledge of historical French Grammar; the history of French literature; and work in Molière's plays, portions of Pascal, Madame de Sévignè, Voltaire, and Victor Hugo, to be assigned upon application. An essay of not less than four pages (foolscap) in either French or German.

The Fellow shall from time to time during the following year, as may be required by the Professors of Modern Languages, give evidence by papers that he is reading such a course as the professors may approve.

The E. M. Biological Fellowship

This fellowship will be awarded after a competitive examination on subjects assigned by the professors in the Department of Biology.

The competition for this fellowship will be open to any member of the Senior class, or to any college graduate who shall have pursued during the preceding year the university course in biology at Princeton, and who shall, in the opinion of the examiners, be deemed competent to pursue the subject advantageously.

This fellowship conveys the use of a table in the National Seaside Laboratory at Woods Hole, Mass., together with all the facilities afforded for the collection and study of animal life during the season favorable for such investigations. In the winter months following this laboratory work the Fellow will pursue his studies at Princeton, and will be required to prepare and submit a thesis embodying the results of his summer researches.

The examination for this fellowship in 1908 will be held in June upon the following subjects:

1. Life-history of higher cryptogams and gymnosperms.
2. Anatomy and embryology of mollusca.
3. Anatomy and embryology of the teleosts and selachians.
4. The histology of the nervous system.

Special Fellowship in English

This fellowship, yielding $500 to the holder, is awarded through the liberality of Mr. Charles Scribner, of the class of 1875.

PART VI

EXAMINATIONS, STANDING, AND GRADUATION; HONORS; GENERAL ORDERS; AND PUBLIC LECTURES

EXAMINATIONS, STANDING, AND GRADUATION

MODE OF CONDUCTING EXAMINATIONS

All written examinations and written recitations are conducted under the honor system. A student is not watched during an examination by any officer of the University, but he is required to write on his paper a pledge that he has not been guilty of any dishonesty or irregularity in connection with the examination.

The administration of the honor system is in the hands of a student committee by whose rules it is the recognized duty of every student to report to the committee any evidence of dishonesty in examination that may come under his observation. If after investigation of such evidence the committee finds a student guilty of dishonesty, it reports his case to the Faculty with a recommendation that he be finally dismissed from the University.

REGULATIONS RESPECTING CONDITIONS AND ABSENCE FROM EXAMINATION

I

Conditions are incurred:

1. By failure to satisfy the requirements of any course. The requirements of a course include both the term work and the examination.

2. By exclusion from an examination because of classroom absences. A student shall be excluded by the instructor from the examination in any course who has unexcused absences as follows:

Three or more from the exercises of any one hour course.

Six or more from the exercises of any two hour course.

Nine or more from the exercises of any three hour course.

Eleven or more from the exercises of any four hour course.

Fourteen or more from the exercises of any five hour course.

In applying this rule a course shall be considered to consist of as many weekly exercises as are regularly given to class-room instruction.

3. By exclusion from an examination on the recommendation of a preceptor. On the recommendation of a preceptor a Department may exclude a student from the examination in any course in which his work with the preceptor has been unsatisfactory.

4. By exclusion from an examination on the recommendation of a laboratory instructor. On the recommendation of a laboratory instructor a Department may exclude a student from the examination in any course in which his work with the laboratory instructor has been unsatisfactory.

5. By absence from an examination. Absence from an examination, due to whatever cause, is counted as a condition if the term grade in the subject is below the passing mark. Every absence from an examination is counted as a condition unless the student presents to the Committee on Examinations and Standing satisfactory evidence that the absence was unavoidable. In all cases of absence from an examination, the deficiency must be made up as if it were a condition.

II

1. A student who, at the end of a term, has conditions amounting to half a term's work, or more, may not graduate with his class. In applying this rule, (1) not only condi-

tions of that term are counted, but also conditions of a year's standing or more, and all entrance conditions not removed by the beginning of Sophomore year; (2) unavoidable absence from an examination shall be counted as a condition one year after the date of the omitted examination, unless meanwhile the deficiency has been made good.

2. A student of the Department of Civil Engineering thus deficient, or a Freshman who at the end of his first term fails in half of his work, or more, may, after the lapse of a whole term during which he must be absent from Princeton, and with the permission of the Faculty, enter the next lower class.

3. Any other student, except a Senior, thus deficient may, after the lapse of a whole term during which he must be absent from Princeton, and with the permission of the Faculty, either enter the next lower class, or re-enter college with an arrangement of studies which will make it possible for him to meet the requirements for his degree by the February following the graduation of his class.

4. A student thus deficient at the end of the first term of Senior year may, with the permission of the Faculty, continue with his class during the second term with an arrangement of studies which will make it possible for him to meet the requirements for his degree by the February following the graduation of his class. This rule does not apply to students of the Department of Civil Engineering. (See § 2 above.)

5. A student of the Department of Civil Engineering who, after the condition examinations in September, has standing against him a condition in any mathematical or technical course shall be dropped from his class. [This rule first applies to the class of 1911. In cases where it applies, it will replace rules 5 and 6 of section III.]

6. A Senior who, at the end of the Senior final examinations, has conditions, will have an opportunity to be re-

examined before Commencement unless his conditions amount to half of a term's work or more. (But see Sec. III, §§ 5 and 6.) In applying this rule all conditions, of whatever term, and also all entrance conditions, are counted. If he then removes all his conditions, he may be recommended to receive a degree with his class. No further opportunity will be given him until the next academic year to remove his conditions and thus qualify for a degree.

III

Examinations for the removal of conditions occur as follows:

1. For the removal of entrance conditions, opportunities are given in December during the last week before Christmas vacation, and also at the regular entrance examinations in June and September.

2. For the removal of all other conditions, examinations are held during the two weeks beginning on the second Monday preceding the opening of the University in September.

3. There are no other opportunities for the removal of a condition by examination, except at the examination period corresponding to the one when the condition was originally incurred, and then only by an arrangement made with the examiner previous to the examination period.

4. Upon application to the Faculty a student may be allowed to remove a condition in an elective course by taking and satisfying the requirements of an extra elective course of at least as many hours. But only one such extra course may be taken in any term.

5. A student who is excluded from an examination by a Department on the recommendation of a preceptor or of a laboratory instructor (see Sec. I, §§ 3 and 4), shall not be

allowed an examination for the removal of the condition incurred, but must either repeat the course or substitute an extra course for it, as the Committee on Examinations and Standing shall direct. A Senior who, in the second term, falls under this rule may remove the condition by examination, but not until the next academic year.

6. Whenever the Committee on Examinations and Standing, acting on its own motion or on the recommendation of any department of the University, finds that a student has neglected the work of a course in which he has incurred a condition, such condition cannot be removed by examination, but only by repeating the course or by substituting an extra course for it, as the Committee on Examinations and Standing shall direct. A Senior who, in the second term, falls under this rule may remove the condition by examination, but not until the next academic year.

IV

A fee of $3 shall be charged for each examination taken for the removal of a condition.

STANDING

The results of the term examinations are combined with those of the work done during the term to decide the relative standing or rank of the student.

The rank in each course is determined by the instructor, who computes from the term work and examinations the marks of the class and divides the class into five groups in the order of merit.

The first group indicates very high standing and contains not more than ten per cent. of the entire class.

The second group indicates high standing and contains not more than twenty per cent. of the entire class.

The third group indicates medium standing and contains not more than thirty-five per cent. of the entire class.

The fourth group indicates low standing and contains not more than twenty-five per cent. of the entire class.

The fifth group contains the remainder of the class; it indicates very low standing.

The general rank of a student is determined by combining his group numbers in the several courses in proportion to the allotted schedule time of each. The students whose averages are highest, and above an established limit, are assigned to the first general group; those next highest to the second general group, and so on through the general groups.

A report of the standing of each student is made to his parent or guardian by the Registrar at the close of the first term and at the close of the year. The latter report gives also the standing for the whole year.

DEGREES

A student who passes his final examinations is ordinarily recommended by the Faculty for the degree appropriate to his course, and if the recommendation is approved by the Trustees, the degree is conferred at Commencement and the diploma of the University is given.

FINAL RANK AND GRADUATION HONORS

The final rank of members of the graduating class is computed by combining the averages for the several years of the course, except that the average for the Freshman year is omitted in those cases in which it would lower the standing of the student. The Faculty then determines what portion of the class shall be printed as the Honor List —the names of the members of each group being printed in alphabetical order. Special Honors in particular Departments are also awarded.

The first and second general groups thus determined are the Honor Groups of the graduating class, and are designated *magna cum laude* and *cum laude*, respectively.

The higher distinction of *insigni cum laude* and the highest of *summa cum laude* are reserved for very unusual excellence.

COMMENCEMENT SPEAKERS

The student whose individual rank is highest is ordinarily awarded the Latin Salutatory by vote of the Faculty. The Valedictory is awarded with special regard to the qualifications of the student as a valedictorian as well as on the ground of scholarship.

In the award of all degrees and honors, regard is had to the conduct of the student during his course, and any student who has incurred serious discipline may be debarred from the rank to which otherwise his scholarship would have entitled him.

HONORS

REGULATIONS FOR GENERAL AND SPECIAL HONORS

Honors are of two kinds, *General* and *Special.*

I. *General Honors* are awarded for general excellence in studies at the close of each academic year, according to the following provisions: At the close of the Freshman, Sophomore, and Junior years, High General Honors are given to those whose average rank for the year is within the first general group, and General Honors to those whose average rank for the year is within the second general group. At graduation High General Honors are given to those whose final average rank for the whole academic course is within the first general group, and similarly General Honors to those within the second general group. In very exceptional cases the Faculty may also bestow the further distinction of Highest Honors. No Senior who has not taken the Junior year in Princeton shall receive General Honors.

II. *Special Honors* are awarded for excellence in single leading departments of study at the close of the Freshman and Sophomore years and at graduation, according to the following provisions:

Freshmen and Sophomores who stand in the first or second group in any subject receive Special Honors in that subject.

Final Special Honors are based on the work of the Junior and Senior years, as follows: a Junior who maintains an average standing for the year not below the second group in the courses of his Department and a general standing not below the third general group, is entitled to be a

candidate for Final Special Honors, and as such may substitute for one of the elective courses in his Senior year the Pro-seminary of his Department.

Final Special Honors are of three grades: Highest Honors, High Honors, and Honors.

Highest Honors shall be awarded to the Senior who in Junior and Senior years has maintained a first group standing in each of the courses of his Department and a general standing not below the second general group.

High Honors shall be awarded to the Senior who in Junior and Senior years has maintained a first group standing in at least half of the courses of his Department, with a standing not below the second group in any of these courses, and also a general standing not below the second general group.

Honors shall be awarded to the Senior who in Junior and Senior years has maintained a standing not below the second group in each of the courses of his Department and a general standing not below the third general group.

Special Honors may be awarded to a Senior who has not taken the Junior year in Princeton.

HONORS COURSE IN MATHEMATICS AND PHYSICS

Candidates for Honors in Mathematics and Physics may obtain Honors by taking and satisfactorily completing certain of the courses offered by the Departments of Mathematics and Physics, according to the following plan:

1. The Curriculum

Sophomore Year

In Sophomore year a candidate for Honors in Mathematics and Physics takes one less elective course than is required in the regular course, but shall have seven hours a week in Mathematics and Physics.

Junior Year

A. Pure Mathematics (Geometry)
B. Analysis
C. Applied Mathematics (Mechanics)
D. Theoretical Physics
E. Experimental Physics

Each course is a three hour course. Unless permitted a different choice by the Department, the student is to select three consecutive courses from the above table. (*i. e.*, either A. B. C., B. C. D., or C. D. E.). In addition each student selects an elective (3 hours) in some other Department than the Department of Mathematics and Physics.

Senior Year

a. Pure Mathematics
b. Analysis
c. Applied Mathematics (Electricity and Magnetism)
d. Theoretical Physics
e. Experimental Physics

Courses A, B, C, D, E of Junior year are prerequisite to the courses a, b, c, d, e of Senior year respectively. The Senior year schedule shall consist of three courses selected from the Honors courses and of an additional elective (3 hours) outside the Departments of Mathematics and Physics. The three Honors courses may be selected from those of the courses a, b, c, d, e of which the prerequisites have previously been taken, or from those of the courses A, B, C, D, E which have not previously been taken.

2. Students who have been ranked in Freshman year in the First or Second Group in Mathematics may enter as candidates for Honors in Mathematics and Physics at the beginning of Sophomore year. Other candidates from the same class may be admitted on recommendation of the Department of Mathematics.

Candidates may also enter the course at the beginning of Junior year, if they satisfy the Departments of Mathematics and Physics of their ability to maintain a satisfactory standing.

3. Those who satisfactorily complete the required courses will receive Honors, with such grades of distinction as are now given, in Mathematics and Physics. No Honors will be given in Mathematics and Physics except to those taking these courses.

4. A student who does not maintain a satisfactory standing in the Honors courses will be required to leave the course, and to choose a course of study under the general plan.

At the end of any year, a student may withdraw from the Honors course, and choose a course of study under the general plan.

5. Attendance on the Honors courses in Mathematics and Physics will be upon the same footing as attendance upon preceptorial conferences.

GENERAL ORDERS

TERMS AND VACATIONS

The year is divided into two terms of eighteen weeks each.

The first term of the present academic year (1907-1908) began on Wednesday, the 18th of September, 1907, and ends on Wednesday, the 5th of February, 1908. The second term begins on Thursday, the 6th of February, 1908, and ends on Wednesday, the 10th of June, 1908, the day of the annual Commencement.

REGULATIONS CONCERNING REGISTRATION AND THE CHOICE OF ELECTIVES

Rules for Registration

At the beginning of the academic year each undergraduate student shall report in person at the Registrar's Office before 3 P. M. on the Thursday on which the University opens, and register his full name, home address, and Princeton address.

After the Christmas vacation each undergraduate student shall report at the Registrar's Office before 10 A. M. on the Thursday on which the vacation ends, and register his name.

In every case of neglect or delay in registration three absences will be recorded against the student for each day that the registration is delayed. Serious cases will be punished by such an increase in the number of absences recorded as the Committee on Attendance may direct, by putting the student on probation, by suspension, or otherwise, as the Faculty may determine.

Any absence from a class exercise incurred in the three days before a vacation or before or after a recess shall count as equivalent to two absences incurred at any other time.

Choice of Electives

It is very desirable to obtain from each student his choice of electives as early as possible, so that the rolls of the elective classes may be made out before the opening of the term. The students are therefore requested to report to the Registrar their choice of electives for the first term of the next academic year on or before the day on which the second term examinations begin. Changes which the student desires to make in his choice may be made by letter to the Registrar in the summer vacation. No changes will be allowed after the beginning of the first term.

The choice of electives for the second term must be reported to the Registrar on or before the third Monday in January.

The penalty for delay in reporting the full list of electives for the term shall be the record of one absence each day for each elective not reported until the list is complete; this delay to be reckoned from the registration at the beginning of the academic year or from the third Monday in January. Serious cases shall be punished more severely as the Faculty may determine. If the student enter any elective class after exercises with that class have been held, he shall be reported by the instructor as absent from those exercises.

REGULATION OF ATTENDANCE

Committee on Attendance

1. The Committee on Attendance has charge of all matters pertaining to attendance on chapel and class exercises. It meets every Thursday, from 1.30 P. M. to 2.30 P. M., in the old Faculty room, University Offices.

Divisions of the Year

2. In the regulation of attendance, the academic year shall be divided into four quarters.

Excuses

3. Requests for permission to be absent from Princeton should be presented to the Committee on Attendance, or in special cases to the Dean of the Faculty.

4. Excuses for absence must always be presented in person to the Committee on Attendance. To be accepted they must be presented (or at least left at the Registrar's Office) not later than the second meeting of the committee after the return of the student to his academic exercises.

5. Absences necessarily incurred by the University musical clubs, in connection with a tour taken in vacation by permission of the Faculty, will be excused on recommendation of the Committee on Non-athletic Organizations.

6. Absences necessarily incurred by the University athletic teams in connection with intercollegiate games will be excused on recommendation of the Committee on Outdoor Sports.

Attendance on Chapel Exercises

7. Every undergraduate student is required to be present twice each week at morning prayers in the chapel unless excused by the President. If a student at any time falls short of this requirement by four absences, he must during the next two weeks attend four times in addition to the four times above provided for. Failure to comply with this rule will render him liable to suspension.

8. Every undergraduate in residence at the University is required to attend at least one half of the Sunday chapel services each quarter. Failure to comply with this rule will render him liable to suspension.

Attendance on Class Exercises

9. Every undergraduate student is required to attend the scheduled exercises of his class. When his absences in any quarter exceed a certain number (10 for Seniors and Juniors, 8 for Sophomores, Freshmen, and Specials), he becomes liable to discipline, which in ordinary cases shall be the imposition of extra work, though other penalties may be imposed at the discretion of the committee. After the first penalty has been imposed, any further irregularity in attendance in that quarter renders the student liable to suspension.

10. If a student is irregular in his attendance on the exercises of any instructor, the instructor may impose extra work.

PUBLIC WORSHIP

Prayers are offered in Marquand Chapel every week-day morning.

Divine service, under the superintendence of the President, is held in Marquand Chapel on Sunday at 11 o'clock A. M.

COMMENCEMENT EXERCISES

The Annual Commencement takes place on the Wednesday preceding the last Wednesday but one in June.

The Baccalaureate address of the President to the graduating class is delivered on Sunday of Commencement week.

The Class Day exercises of the graduating class are held on Monday of Commencement week. The annual meetings of the Literary Societies, the annual meeting of the Alumni Association of Nassau Hall, and the Lynde Prize Debate are held on Tuesday.

PUBLIC LECTURES

TRASK LECTURES

The income from $10,000, presented by Mr. Spencer Trask of New York City, is available to secure the services of eminent lecturers to deliver public lectures before the University on subjects of special interest.

THE ANNE M. LOOMIS RECITALS

Established in 1904 by Mrs. Jacob Newton Beam, in memory of her mother, for the promotion of musical culture in the University. The terms of Mrs. Beam's gift provide for two song recitals annually; the first to be devoted to folk songs, and the second to art songs, or song classics.

PART VII

GROUNDS AND BUILDINGS, AND INSTITUTIONS CONNECTED WITH THE UNIVERSITY

GROUNDS AND BUILDINGS

The Campus

During the first decade of its existence, the College of New Jersey owned neither grounds nor buildings. The College exercises were held either in the house of the President or in convenient rooms elsewhere.

From the beginning, however, it had been the purpose of the Trustees to erect college edifices in a central part of the State and there locate the institution permanently. It was voted, May 15, 1751, therefore, that the necessary buildings should be erected at New Brunswick, provided the citizens of that place secured to the College the sum of one thousand pounds proclamation money, two hundred acres of woodland, and ten acres of cleared land. An offer of these terms was also made by the inhabitants of Princeton at the same meeting of the Trustees, and when, in September, 1752, it was learned that New Brunswick had not complied with the required terms, the Princeton offer was formally accepted. The particular tract of ground which became the site of Nassau Hall was given by Nathaniel Fitz Randolph, and the money guarantee was furnished by Messrs. John Stockton, Thomas Leonard, and John Horner, all wealthy residents of the village.

The University campus consists roughly of three tracts of land adjoining each other. The central portion, of about two hundred and twenty-five acres, forms a quadrangle bounded by Nassau Street on the north, Washington Road on the east, the lake on the south, and the line of the Pennsylvania Railroad on the west.

The western portion, known as Springdale Farm, which

was presented to the University in 1905, consists of two hundred and twenty-one acres, lying between the Theological Seminary and Stony Brook.

The other portion, lying on the eastern side of Washington Road, was also presented to the University in 1905. It consists of ninety-three acres and includes the land lying between the line of the clubs on Prospect Avenue and the lake.

All the University buildings are heated by steam and lighted with electricity, and in addition, with the exception of those in Reunion Hall, almost all studies are provided with open fire-places. Every entry in each of the dormitories is provided with a lavatory, containing shower baths and other toilet facilities.

Nassau Hall

Nassau Hall, the oldest and historically the most interesting building on college property, is picturesquely situated on the most elevated point of the front campus. At the time of its completion in the autumn of 1756, it was the largest academic building in the country. It was designed by Robert Smith, of Philadelphia, and was built of sandstone quarried in the neighborhood, and is now covered with ivy. In its three stories and basement it formerly contained, exclusive of the prayer hall or chapel, which occupied the central portion of the building, sixty rooms, which included refectory, library, and recitation rooms. It was named Nassau Hall in honor of William of Nassau, Prince of Orange, William III of England. During the Revolution it served at different times as hospital and barracks for American and British troops; here from June to November, 1783, the Continental Congress sat, and here, on the twenty-sixth of August, Washington received the thanks of Congress for his conduct of the war of the Revolution.

Remodelings of the interior, consequent upon two disastrous fires in the last century, have strikingly altered the arrangement of the building. The upper floor contains the Histological Laboratory and the Laboratory of Experimental Psychology; on the second floor may be found the Department Library of Geology and Palæontology and the office of the Curator of the E. M. Museum, while the first floor is occupied by the Palæontological Laboratory and the Geological lecture room. The large central hall on this floor has been remodeled and is now used as the Faculty Room of the University.

The Dean's House

A house for the President of the College was erected in 1756, and until 1878, when Prospect was acquired by the Trustees, it continued to be the presidential residence. Since the creation of the office of Dean of the Faculty the house has been the official residence of the Dean.

The University Offices

In 1803 a stone building containing recitation rooms, a library, and apartments for the two literary societies of the College, the Cliosophic and the American Whig, was erected west of Nassau Hall. This is now used as the Administration Building of the University, and contains the Office of the Treasurer, the Office of the Registrar, and the Office of the Curator of Grounds and Buildings.

Prospect

Prospect, the official residence of the President of Princeton University, is one of the oldest estates in the town, although it was not acquired by the University until 1878. The mansion, erected in 1849, is beautifully situated in extensive grounds, the main entrance to which opens on McCosh Walk.

Halsted Observatory

This observatory is appropriated to scientific work, chiefly in the department of astronomical physics. The building, the gift of the late General N. Norris Halsted, is of stone, with a dome thirty-nine feet in diameter, the power for moving it and its sliding shutter being furnished by an electric motor and a storage battery. In it is mounted the great equatorial, of twenty-three inches aperture and thirty feet focal length, made by the Clarks, and provided with all the usual accessories, micrometric, spectroscopic, and photometric. The building also contains a clock and a chronograph, and is in electric connection with the Observatory of Instruction.

Observatory of Instruction

This observatory is devoted entirely to the use of students and is fully equipped for its purpose. It possesses an equatorial (by Clark) of 9½ inches aperture, with a full complement of spectroscopic and other accessories. It has also a 9-inch reflector; a meridian circle, with circles 2 feet in diameter, and a 4-inch telescope; two transit instruments with 3-inch telescopes, both of them arranged for use as zenith telescopes; a 3-inch prime-vertical instrument; a chronograph; two standard clocks and five subsidiary clocks, one in each observing room. There are also a number of sextants, two chronometers, and all the other auxiliary apparatus required for carrying out the work in the courses on practical astronomy, to accommodate which a room for lectures and recitations has been added.

Dickinson Hall

This building, the gift of John C. Green, Esq., is used for the class-room work of the Academic Department. It was erected in 1870 from the designs of George B. Post, of

New York, and is built of local stone trimmed with Connecticut limestone. It was named by Mr. Green as a memorial of Jonathan Dickinson, the first President of the College. In 1876 extensive alterations were made in the building and the exterior was much changed.

The first and second floors contain lecture rooms sixteen feet high and admirably lighted; over these, on the third floor, is the Examination Hall, eighteen feet high, containing a stage for public speaking, and accommodating about four hundred persons.

The School of Science Building

The School of Science Building was erected in 1873 and liberally equipped by John C. Green, Esq., a benefactor of the institution in many ways. It is devoted to the purposes of instruction and research in the John C. Green School of Science and contains the lecture rooms and laboratories of that department.

On the first floor are located the physical laboratories and lecture rooms, the civil engineering lecture rooms and laboratories, and other class-rooms. On the second floor are the biological and astronomical lecture rooms, the biological laboratory, and the drawing-rooms of the department of graphics. In the graphics room is a set of duplicates of the more important Olivier models of ruled surfaces; here also are the Björling developable surface models, a number of the Muret set, and the Shröder mathematical models. On the third floor are the collections of the Museum of Biology and the private working rooms and laboratories of the Curator.

In the basement of the building are other recitation rooms and the machine shops of the School of Science, and connected with it is the dynamo building of the Department of Electrical Engineering.

Marquand Chapel

The chapel was the gift of the late Henry G. Marquand, Esq., of New York. The cornerstone was laid in June, 1881. The building is constructed of brownstone, and is cruciform in shape. The apse contains the organ and choir stalls. The gallery over the main entrance is used in part for visitors. The faculty stalls are along the sides of the building. The mural and window decorations are noteworthy. The St. Gauden's heroic bronze high relief of the late President McCosh, erected by the class of 1879, faces the visitor on entering; by its side are the low relief memorial tablet to Professor Joseph Henry and the bronze tablet to Professor Arnold Guyot, set in a fragment of a Swiss glacial boulder presented by the authorities of his native city, Neuchatel. On the east wall of the south transept is the memorial tablet to the Rev. James Ormsbee Murray, first Dean of Princeton University, presented to the University in November, 1901. This tablet consists of rose-colored Numidian marble, upon which is a medallion-portrait in bas-relief of white marble, surrounded by an embossed wreath.

The south and north windows, by Lathrop, are in memory of Frederick A. Marquand, of the class of 1876, and William Earl Dodge, of the class of 1879. The west window, by Tiffany, is the gift of Mrs. T. Harrison Garrett, of Baltimore, in memory of her son, Horatio W. Garrett, of the class of 1895. The Sunday and daily morning services are held in the chapel.

Alexander Hall

This building, the gift of Mrs. Charles B. Alexander, is used for Commencement and Class Day exercises, public lectures, and other university gatherings of a general character. The auditorium is arranged with sloping floor and high gallery so that an audience of fifteen hundred may be

comparatively near the speaker. The rostrum and President's chair are finished in colored marbles and polychromatic mosaic. Behind the rostrum is a row of mosaic wall pictures, designed by J. A. Holzer, illustrative of the Homeric story. A large organ built by George Jardine and Son, embodying the most recent features of organ construction, stands in one of the small galleries near the rostrum.

The building is constructed of granite and brownstone, and is Romanesque in style. The front toward the south exhibits a large rose window beneath a gable roof, and between the central structure and two side towers are two fine round-arched openings which lead into a wide ambulatory encircling the building. From this ambulatory the rostrum and auditorium are reached. The two side towers and two smaller ones at the rear enclose staircases, which lead to the auditorium gallery. The building, which was designed by William A. Potter, has been decorated with sculpture, under the direction of the architect, by J. Massey Rhind. Beneath the rose window on the south front is a seated figure of Learning, on one side of which are allegorical figures of Architecture, Sculpture, Painting, Poetry, Music, and Belles Lettres; on the other, of Oratory, Theology, Law, History, Philosophy, and Ethics. There are other sculptures about the rose window and in the niches around the ambulatory.

Isabella McCosh Infirmary

The Infirmary, built by alumni and friends of the University, contains all the modern arrangements of the best hospital construction. The buildings are pleasantly located on the hillside below Prospect, commanding every advantage of position as to air, outlook, and sewerage. The two buildings are isolated from one another and are connected only by a long corridor. One of these buildings is devoted to the treatment of all cases not requiring

special isolation. The other provides for the reception of those cases in which isolation is desirable. While the health of Princeton is exceptionally good, the occasional illness incident to so large a body of students demands accommodation suitable for its care.

The Sanitary Committee of the University has the Infirmary under its care. It is thus brought under constant and careful supervision. It is open to the reception of students on the certificate of an attending physician. As the Infirmary is without endowment, each student by the payment of a small fee secures for himself, in all cases of ordinary illness, needed care, including board, nursing, and laundry, everything but physician's fees and medicines, without charge. Where special nursing is required, an additional charge covering actual expenses will be made; and when an illness covers a period of more than one week board will be charged for after the first week at the same rate that the student would pay at his usual boarding place.

The Gymnasium

The Gymnasium, erected by the alumni at a cost exceeding $280,000, is situated toward the southwest end of the campus, adjoining the Brokaw swimming-pool, which has been architecturally combined with it. In style of architecture this building conforms to the academic Gothic of Blair, Little, and Patton Halls, and the material used in its construction is the same Germantown stone. These four buildings, harmonizing in style and general effect, form an almost unbroken western boundary to the campus, nearly half of a mile in length.

The façade of the Gymnasium comprises two full stories and a tower. The lower story contains a trophy hall, paneled in English oak, and the upper floor is devoted to committee rooms, superintendent's quarters, and other necessary apartments.

The Gymnasium proper is entered through the trophy hall. It is 166 feet long and 101 feet wide, and is almost as high as the two-story portion of the building. Its roof is supported only by the side walls, so that the interior is unobstructed. About its walls is an elevated running-track over 150 yards around, and in the basement are locker rooms, bowling alleys, and places for various forms of indoor exercise.

It contains, besides the main hall with the apparatus for physical training, hot and cold shower and plunge baths and dressing rooms. The Gymnasium is open daily from 10 A. M. to 10 P. M. throughout the University year. The director is in attendance during these hours to examine, advise, and instruct all who may desire his services.

McCosh Hall

This collegiate Gothic building of Indiana limestone, erected in 1907 by friends in memory of the late President McCosh, composes one side of a contemplated quadrangle.

It is over 400 feet long and contains 18 lecture rooms and 26 rooms for preceptorial conferences. It contains one room seating 600 persons, one room seating 400, four rooms seating 75, four rooms seating 65, and six seating 50 each.

The Hall is fire-proof and is heated, ventilated and lighted by the latest methods.

DORMITORIES

West College

West College, built in 1836, is the oldest dormitory building still standing. It forms the western side of the central quadrangle and contains forty suites of rooms.

Reunion Hall

Reunion Hall, erected in 1870 on the site of Professor Joseph Henry's residence, was so named to commemorate the reunion of the Old and New Schools of the Presbyterian Church. Prominent members of each party gave the funds by which it was built, and its cornerstone was laid by the officers of the General Assembly.

Witherspoon Hall

Witherspoon Hall, named after Princeton's president of Revolutionary days, the signer of the Declaration of Independence, was built in 1877. It contains sixty suites. Built of gray stone with brown stone trimmings in the Victorian Gothic style, it towers above the neighboring buildings on the western section of the campus and forms the north side of the quadrangle enclosed by Edwards and Stafford Little Halls.

Edwards Hall

Edwards Hall, a brownstone Gothic building, is named after President Jonathan Edwards and contains eighty-four rooms. It was erected in 1880.

Albert B. Dod Hall

Albert B. Dod Hall, the gift of the late Mrs. David Brown, of Princeton, was erected in 1890 in memory of her brother, Professor Albert Baldwin Dod, of the class of 1822. It is a long, massive structure in the Italian style, of granite with limestone trimmings; while the columns flanking the entrance are of Georgia marble. The carving over the main entrance is Byzantine. The building has accommodations for one hundred students.

David Brown Hall

David Brown Hall, another gift from Mrs. Brown, was erected in 1891 in memory of her husband. It is modeled

after a Florentine Renaissance palace, and forms a hollow square of four stories enclosing a courtyard 67 by 44 feet. The first two stories are of granite, the two upper stories Pompeian brick. A granite seat runs the length of the front façade. This dormitory, which contains fifty suites, is situated at the edge of Prospect gardens and overlooks the long slope towards the lake and the landscape beyond.

Blair Hall

Blair Hall, a Sesquicentennial gift of the late Hon. John Insley Blair, was the first representative of the style of architecture which has since been adopted for the later Princeton buildings. Blair Hall is built of white Germantown stone, in the English collegiate Gothic style, and contains fifty-three suites. The square massive central tower is pierced by an archway which, with the terraces and flight of steps, forms the entrance to the campus from the southwest. An addition, with a gateway tower, has been erected by De Witt Clinton Blair, Esq., of the class of 1856.

Little Halls

Adjoining the southern end of Blair Hall and following out that building's line and style on a slightly lower level of ground is Stafford Little Hall, a dormitory containing sixty-two suites of rooms, the gift of the late Henry Stafford Little, of the class of 1844. It was erected partly in 1899 and partly in 1902 and forms, with Blair Hall at one end and the new Gymnasium at the other, a series of architecturally harmonious buildings marking the western confines of the campus.

University Hall

University Hall, at the junction of Nassau street and University Place, was originally planned as a hotel, but

now serves as a dormitory. The lower floors are now used by the University Dining Halls as club rooms for members of the Freshman class.

The Pyne Buildings

The two other dormitories on Nassau street are the Upper and Lower Pyne Buildings, the latter being on the corner of Nassau and Witherspoon streets. These buildings were erected in 1896 by M. Taylor Pyne, Esq., of the class of 1877, and are in the half-timbered Chester style.

Seventy-nine Hall

Seventy-nine Hall is a development of the Tudor Gothic, so extensively used at Oxford and Cambridge, and in the recent buildings at Princeton.

It is two stories in height, with a basement. The walls are of red brick, the trimmings of Indiana limestone. Toward the middle and directly opposite Prospect Avenue is a tower which forms the principal feature of an asymmetric composition. The Hall accommodates forty-eight men.

Patton Hall

Patton Hall, a dormitory furnishing accommodations for one hundred men, is the gift of the ten classes from 1892 to 1901, inclusive. This building, erected in 1906 from the plans of Benjamin W. Morris, Jr., is the latest addition to the graceful line of Gothic architecture marking the western confines of the campus. Built of the same material and conforming in style to Blair and Little Halls, Patton Hall has been designed as the first of an imposing series of buildings which are to enclose Brokaw Field on the east and south.

THE UNIVERSITY LIBRARY

ERNEST C. RICHARDSON, PH.D., Librarian.
JUNIUS S. MORGAN, A.M., Associate Librarian.
———— — ———— ——, Reference Librarian.
MISS CHARLOTTE MARTINS, Chief of Purchase Department.
CHARLES A. GEORGE, A.M., Chief of Catalogue Department.
RALPH H. PEABODY, Assistant in charge of Circulation Department.

The Library began with the College, Governor Belcher, the patron of the College, directing his especial attention and interest to it, and leaving to it his collection of 474 volumes. When the first catalogue was printed in 1760, the Library consisted of about 1,300 volumes. It was increased largely in the sixties, but was decimated during the Revolution and in 1796 numbered only 2,300 volumes. It was partly destroyed by fire in 1802, but shortly after its size was fully restored by gifts. In 1816 it numbered 7,000 volumes, in 1839, 8,000, and in 1850 it had advanced to 9,313 volumes. In 1868 it contained but 14,000 volumes, without separate building or librarian.

THE CHANCELLOR GREEN LIBRARY

In 1868 the Elizabeth Fund for the purchase of books was created by John C. Green, Esq., and soon afterward he erected a library building (in 1872-3) named in honor of Chancellor Green. This Chancellor Green Library building, fitted throughout with the most modern system of heating, ventilation, and electric lighting, is the working library of the University for undergraduates, containing the standard and latest works in all departments and especially fitted for study. In addition the Chancellor Green Library contains the following special collections:

The Charles Ewing Green Alcove. The alcove facing the public entrance to the Chancellor Green Library has been set aside as a memorial to the late Charles Ewing Green, LL.D., class of 1860, for many years a Trustee of the University, and as the administrator of the John C. Green estate, one of Princeton's most generous and consistent benefactors. To commemorate the active interest which he always took in the Chancellor Green Library, as well as in the general library development of the University, the late Mrs. Charles E. Green has erected in this alcove a memorial tablet, and has placed upon the shelves books on classical philology. There are at present 2,652 volumes in this collection.

The Class of 1883 Library of Political Science and Jurisprudence, founded and endowed in 1893, contains at present 937 volumes. Location: alcove X, gallery.

The Class of 1889 Library of American History, established and endowed in 1899, contains at present 515 volumes. Location: alcove C, main floor.

The Class of 1878 Library of Chemistry, established and endowed in 1889. Numbering at present some 65 volumes, distributed among the collections relating to this subject. Location: alcove Z, gallery.

The Main Library Building

The Chancellor Green building having long been crowded beyond its calculated capacity, provision was made on the occasion of the Sesquicentennial by the late Mrs. Percy Rivington Pyne for a new building with a capacity of 1,200,000 volumes, besides adequate administration rooms, twenty rooms for instruction and research, and a large room for the exhibition of rare books. This building, of Longmeadow stone, in the Oxford Gothic style, forms a hollow quadrangle of about 160 feet square, connected with the Chancellor Green Library by a delivery room of 50 by 20

feet. It is fitted with modern improvements in heating, ventilation, stacks, electric elevators, interior telephone, etc., and has shelves at present sufficient for about 500,000 volumes. On the exterior of the western tower gateway are statues of President Witherspoon and President McCosh, James Madison, class of 1771, fourth President of the United States, and Oliver Ellsworth, class of 1766, second Chief Justice of the United States Supreme Court.

The Central Collection

The general collection which occupies the united buildings consists of 217,100 volumes and about 58,000 unbound periodicals and pamphlets. It includes, in addition to those already mentioned, the following special collections:

Special Collections

The Pyne-Henry Collection of Manuscripts, relating to the history of the University, presented by M. Taylor Pyne, Esq., '77, and the Hon. Bayard Henry, '76. 1,462 documents. Location: exhibition room.

The Morgan Collection of Virgils, presented by Junius S. Morgan, Esq., '88. 659 volumes. Location: exhibition room.

The Pierson Civil War Collection, presented by John S. Pierson, Esq., '40. 6,534 volumes; 2,500 unbound pamphlets; including also several thousand clippings. Location: stack, fourth floor.

The Princeton University Collection, including the large collection of Princetoniana presented by Professor William Libbey, '77. 3,840 volumes. Location: stack, fourth floor.

The Class of 1875 Library of English Poetry and Drama. 1,273 volumes, distributed among the collections relating to these subjects.

The Garrett Collection of Oriental Manuscripts, consisting of 1,845 manuscripts, chiefly in Arabic, but including 75 manuscripts in twenty-five other languages, *e.g.*, Latin, Greek, English, Persian, Pali, Javanese, Chinese, Japanese, etc., deposited in the University Library. This collection is most exhaustive and includes books on law, medicine, mathematics, natural sciences, poetry, history, biography, geography, travels, rhetoric, grammar, and lexicography, as well as works on the Mohammedan religion and the exegesis of the Koran. Location: northwest corner, second floor, left.

The Willard Hall Porter Law Library, presented by Mrs. Willard Hall Porter and her son, W. H. Porter, Jr., 1903. 1,800 volumes. Location: stack, fourth floor.

Special collections, other than of books or manuscripts, are:

The Garrett Collection of Coins, deposited in the University Library. This collection, embracing also specimens from many foreign countries, contains an unusually fine series of American coins. In addition to the coins that have been used for money the collection includes many medals commemorative of notable historic events and persons.

The Hutton Collection of Death Masks, presented by the late Laurence Hutton, A.M. 74 masks. Location: exhibition room.

Seminary and Other Special Libraries

Certain rooms in the Main Library Building are available for the use of seminaries, organized under the rules of the Faculty for "the development among our higher students of independent scholarly ability by extensive advanced study and training in the methods of original research." Several rooms have been assigned and provided with special libraries, partly by loan from the main

collection, but chiefly by special endowment and purchase. The following have been established:

The Philosophical Seminary. Founded by Mrs. C. B. Alexander (ethics), and by the Class of 1882 (logic and metaphysics). 1,800 volumes; 1,262 theses. Location: southeast corner, second floor.

The Economic Seminary. Founded by the Class of 1888. 1,795 volumes. Location: southeast corner, first floor.

The Political Seminary. Founded by various alumni and friends. 260 volumes. Location: southeast corner, second floor.

The Classical Seminary. Founded by a friend of the University. 6,265 volumes; 20,795 theses. The Classical Seminary at present occupies five rooms in the southwest corner of the building.

The English Seminary. Founded and supported by Charles Scribner, Esq., '75. 1,691 volumes; 674 theses. Location: northwest corner, first floor.

The Romance Seminary. Founded by the Class of 1890. 1,769 volumes; 265 theses. Location: northwest corner, first floor.

The Mathematical Seminary. Founded by the Hon. John L. Cadwalader, '56; Professor M. Allen Starr, M.D., LL.D., '76; David B. Jones, Esq., '76; Thomas D. Jones, Esq., '76; Chandler W. Riker, Esq., '76; and the Hon. Adrian Riker, '79. 2,000 volumes; 1,108 theses. Location: northwest corner, second floor.

History. Founded by Mr. and Mrs. M. Taylor Pyne in memory of Robert Stockton Pyne. 2,613 volumes. Location: southeast corner, second floor.

Germanic Languages. Founded by the Class of 1891, and including the library of the late Professor Willard Humphreys. 1,980 volumes; 127 theses. Location: southeast corner, first floor.

Semitic Languages. 713 volumes. Location: northwest corner, second floor.

Department Libraries

These are libraries selected from the general collection and kept in proximity to the corresponding laboratories. The following are organized:

Astronomy; containing at present about 1,250 volumes and 519 theses. In the Working Observatory.

Biology; supported by Charles W. McAlpin, Esq., '88. About 1,157 volumes; 110 theses. In the Biological Laboratory.

Botany; containing 520 volumes. In the School of Science Building, second floor.

Geology and Palæontology; about 2,500 volumes. In Nassau Hall, second floor, western end.

Engineering, including the Class of 1878 Library of Engineering; about 900 volumes. In the School of Science Building, second floor.

Use of the Library

The Library is open from 8 A. M. until 10 P. M. during term time, and from 9 A. M. until 1 P. M. in vacation.

Books may be drawn by all officers and students of the University and Theological Seminary, and by any person properly introduced. The number of books which may be taken is limited to three in the case of undergraduates, with the exception of Seniors, who may take five. Officers, Fellows, and graduate students may take any reasonable number. Books may be kept by undergraduates for two weeks, by Fellows and graduate students for four weeks, and by officers for any reasonable time. All books may be renewed when due, unless wanted by some one else.

Fines are charged at the rate of two cents a day on

all books kept overtime. If an overdue book is wanted at the Library for any reason, it may be sent for and a charge of ten cents for messenger made. Postal cards are sent as a reminder of books overdue only when the books are wanted by others. No books may be drawn while there are unpaid fines.

The Hall Libraries

The two literary societies—the Whig and the Cliosophic—have catalogued libraries of more than 10,000 volumes each, and the religious society, the Philadelphian, one of 1,000 volumes.

The Theological Seminary Library

The Library of the Princeton Theological Seminary contains 77,800 volumes, which are distributed in two buildings. The one, the general library, is open to the students of the University for consultation and loan of books on Saturday, from 9 A. M. to 1 P. M., and on every other week-day from 9 A. M. to 1 P. M. and from 2 to 4 P. M. The other, the reference library, is open on every week-day from 9 A. M. to 1 P. M., from 2 to 5 P. M., and from 7 to 10 P. M.

Summary of Libraries

University Library,	217,100
Hall Libraries,	21,000
Theological Seminary Library,	77,800
Total (exclusive of pamphlets and duplicates),	315,900

SOCIETIES

Literary Societies

The Cliosophic and American Whig Societies were founded prior to the Revolution. They are conducted by the undergraduates, but also include in their organization graduates and officers of the University. Each possesses a valuable library of over 10,000 volumes. The old halls in which they were accustomed to meet, becoming too small for their accommodation, were removed about 1890, and large and handsome buildings of white marble were erected near the old sites. Both Societies pursue courses of literary exercises, award numerous prizes for orations, essays, and debates, and grant diplomas to their respective graduates.

A generous competition for University honors has always prevailed between them. On the evening before Commencement representatives of the Societies from the Senior class engage in a public debate. During Commencement week representatives from the Junior class engage in a competition in oratory. The details respecting the Lynde debate and Junior orations will be found on later pages.

The Philadelphian Society

The Philadelphian Society is an institution of undergraduates for the promotion of the religious interests of the University, particularly of the members of the Society. It was founded in 1825. Devotional meetings are held every Thursday evening, and under its auspices the devotional study of the Bible and foreign missions is facilitated.

It has the exclusive use of two buildings. Murray Hall, erected in 1879 from a bequest left for the purposes of the Society by Hamilton Murray, of the class of 1872, contains an auditorium for public worship and a library. Dodge Hall, connected with Murray Hall by an ambulatory, is the gift of the late William E. Dodge, Esq., and his son, Cleveland H. Dodge, Esq., of the class of 1879, in memory of the late W. Earl Dodge, of the same class. It contains four rooms for the religious meetings of the four classes, a handsomely furnished reading room, containing current periodicals and recent fiction, committee rooms, and the apartments of the Secretary. The privileges of this building are extended to all the students of the University irrespective of their relation to the Philadelphian Society.

The St. Paul's Society

The St. Paul's Society, a religious organization composed of those of the undergraduates of the University who are members of the Protestant Episcopal Church, was founded in 1875. To its care is intrusted a number of mission chapels wherein members of the Society, lay readers licensed by the Bishop of New Jersey, conduct services every Sunday. Under its auspices a course of sermons is delivered annually in Trinity Church. Bible classes are held in Dodge Hall, and meetings are held in an attractive room provided for the use of the Society by Trinity Parish, in the Potter Memorial House, situated on Mercer street, adjoining Trinity Church. The annual election of officers is held on the fourth Wednesday of April.

MUSEUMS

The E. M. Museum of Geology and Archæology

This Museum, occupying the eastern wing of Nassau Hall, contains collections which are distributed in the three general departments of geology (including mineralogy), palæontology, and archæology. Their arrangement is especially adapted to the purposes of comparative study.

In the Geological Department a special room contains a unique collection of over 5,000 specimens of erratic boulders and drift materials from Switzerland. There is also a special room devoted to the typical rocks and fossils of the State of New Jersey. A collection of the typical rocks of the State of New York represents the series as described in the Geological Survey of that State.

There is in this department a large collection of minerals, chiefly crystals, now stored in the John C. Green School of Science, containing about 2,600 specimens, bequeathed to the University by the late Archibald MacMartin of New York. The perfection of the specimens, and the number of localities represented in each family, make this collection one of special value.

Palæontological Department.—The eastern hall contains the main collection; on the platform are the skeletons of a Mastodon, an Irish Deer, a Cave Bear, and some of the extinct birds of New Zealand; also the skulls of *Uintatherium* and a remarkably complete skeleton of *Cervalces*. There are mounted casts of the gigantic reptiles and mammals of the secondary, tertiary, and quaternary ages. Surrounding the room is a very perfect collection of vertebrate and invertebrate fossils from Europe and Amer-

ica, illustrating the principal organic forms of all the geological epochs. The typical fossils selected agree, as far as possible, with those mentioned in Dana's *Geology*, as characteristic of different geological periods. Included in this series are the fine Eocene and Miocene fossils, many of which are type specimens, procured in the West by the various Princeton collecting parties. There is also a series of fossil insects and plants from Colorado, most of which are also types. Altogether the number of fossils, not counting duplicates, is 15,000.

ARCHÆOLOGICAL DEPARTMENT.—The collections in this department are stored at present in the south stack of the University Library for lack of proper exhibition room.

America is represented by the pottery and human remains of the mound builders, by several hundred specimens of Mexican and Peruvian pottery, and by a number of recent Indian relics. The interesting ethnological collection of objects, chiefly from Alaska and New Mexico, which Dr. Sheldon Jackson presented to the Theological Seminary of Princeton, has been transferred to this Museum by the Trustees of that institution, with the consent of the donor. There is also a series of models of the cliff-dwellings and pueblos of the Southwest, executed under the direction of Dr. Hayden.

Below the eastern hall are the lecture and working rooms.

THE MUSEUM OF BIOLOGY

The biological collections have been chiefly made from the endowment fund of the John C. Green School of Science. There have also been many smaller donations to the Museum from time to time. The collections are placed in the large upper hall of the School of Science building, and are at present especially rich in osteological specimens. On the same floor are the laboratory and working rooms. The collection of vertebrates includes a large number of

mounted and disarticulated skeletons of mammals, reptiles, birds, and fishes. Among the invertebrates are a series of ascidians, echinoderms, molluscs, crustaceans, insects, worms, corals, sponges, and microscopic preparations of small forms. Students may apply to the Curator for access to the catalogue and cases containing the skeletons.

The Herbarium is on the second floor of the School of Science building, and is arranged as a museum of the botanical collections, also as a working laboratory for students. The plants are classified according to the *Pflanzen-familien* of Engler and Prantl, and include specimens from the different sections of the United States, and from South America, Europe, and Australia. There are extra specimens for laboratory use and dissecting, together with compound microscopes, reagents, anatomical instruments, section cutters, models, diagrams, and books of reference.

During the last year, the Herbarium has received from Per Dusèn, Hon. D.Sc., Princeton, of Räby, Sweden, a valuable collection of plants, illustrating the flora of Europe, especially of Scandinavia.

Professor Dahlgren has presented to the Zoölogical Museum specimens of the invertebrates of the Dry Tortugas and Jamaica.

Through Professor McClure, a skeleton of a chimpanzee has been added to the osteological collections.

Department of Ornithology.—The ornithological collections of the University form a department of the Museum of Biology. Starting with a representative local collection of the birds of New Jersey, which are mounted and on exhibition in the halls of the Museum, these are supplemented in the laboratories by the following groups of unmounted birds, which show the relations of the local collection to the avifauna of the world at large: A North American collection, a European collection, an Australian collection, an Indo-Asian collection, a South American

collection. There are in all some sixteen thousand individuals.

The South American collection, for which the Hatcher Expeditions to Patagonia are largely responsible, owing to the interest of Mr. John W. Garrett, '95, of Baltimore, was materially augmented by Professor William B. Scott, during his stay in Argentina. Very advantageous exchanges with the Museo La Plata were made. Through the liberality of friends of the University, valuable ornithological material was purchased from S. Pozzi, Esq., of La Plata. These collections are especially valuable in view of the extensive work assumed by the University on the fauna of Patagonia. The additions to the Department of Ornithology from this source alone aggregate some eight hundred bird skins.

The collections are further supplemented by some four thousand sets of eggs, most of them in nests, as well as much alcoholic material and many skeletons.

The department received in exchange during the year 1900 from the British Museum of Natural History some two thousand birds. These represent parts of the avifauna of Europe, India, and Asia, and aid materially in rounding out the existing collections. Many minor gifts have been received from alumni, particularly representatives of game birds from many localities in North America.

All this material affords facilities for special study in factors and problems, such as individual variation, geographical distribution and variation problems, migration and the like. Graduate students will find special facilities for work in the laboratories connected with this department.

The Museum of Historic Art

The upper story of the Museum contains a library of books and photographs of classical and medieval archæology, collections to illustrate the history and processes

of the graphic arts, reproductions of Greek and Roman coins and gems, specimens of Greek and Roman marble, a collection of bronze medals and casts of ivories from the Roman to the Gothic period, a series of casts from the Arch of Trajan at Beneventum, and a small collection of paintings. One room is devoted to exhibiting the results of the Princeton Expedition to Syria. Here, besides casts of sculpture and inscriptions, are many examples of Syrian workmanship in stone, terra-cotta, glass, bronze, and gold.

In the central story the Trumbull-Prime collection has been rearranged and new cases have been added. The purpose of this collection is to illustrate the history of pottery and porcelain. Egypt is represented by sepulchral figurines, beads, and amulets; Phœnicia by numerous Cypriote vases; Greece, Etruria, and Southern Italy by Corinthian aryballoi and fine examples of larger vases of black-figured and red-figured types. The Orient is further illustrated by specimens from Persia, China, and Japan; South America by Peruvian pottery. The collection is richest in examples of European wares, to which England, France, Germany, and Holland are the chief contributors, but Italy, Russia, Sweden, and Switzerland are also represented. The small room on this story contains the Livingston loan collection of pottery. This collection is noteworthy for the illustrative material it furnishes for the early history of our country.

The staircase and basement are occupied by a carefully selected collection of casts of ancient and medieval sculpture, presented by the class of 1881 at its decennial. This collection was formed to illustrate the history of ancient sculpture in Egypt, Babylon and Assyria, Persia, Greece and Rome, and of medieval sculpture in Italy, France, and Germany. There has been recently added from the same fund a collection of casts of Renaissance sculpture.

The Museum is open to visitors from 8 A. M. to 6 P. M.

The Morphological Museum

The Morphological Museum, founded in 1897, is located in the Class of 1877 Biological Laboratory. At present the Museum contains one thousand seven hundred first-class preparations, illustrating the comparative anatomy of vertebrates. The collection, which consists mostly of dissections and corrosions, is constantly being added to at the rate of about three hundred specimens a year, all of which are prepared in the laboratory by the Curator and his assistants.

LABORATORIES AND APPARATUS

Psychological Laboratory

The laboratory for experimental psychology was founded and equipped for work at the beginning of the academic year 1893-94. It occupies a suite of rooms on the third floor of the west wing of Nassau Hall, on the south side, opposite the histological laboratory. It comprises five rooms, *i.e.*, a dark-room, three rooms for research work, and a room fitted up for demonstrations and lectures. The equipment consists primarily of the standard pieces of apparatus for demonstrations and research, together with illustrative models and charts, and is added to as the development of the department in special directions makes it necessary. Professor Allan Marquand has presented to the laboratory both models of his well-known "logical machine" and a number of volumes. A select library of reference books and bound psychological periodicals is connected with the laboratory. Attention may be called to the very complete list of current journals in psychology, philosophy, and neurology which are on file in this library. Researches from the laboratory are published in the *Princeton Contributions to Psychology*, now in the fourth volume.

Physical Laboratory and Apparatus

The physical laboratory is fitted up with tables and other arrangements to accommodate about fifty students at once. The classes usually work in small divisions, to facilitate the arrangement of the course in logical order and to avoid interference with the hours allotted to other courses.

The collection of apparatus for lecture demonstrations is a very good one, but as far as practicable the equipment consists of instruments which are serviceable not only in the lecture courses, but in the practical laboratory work. The collection contains most of the standards and instruments of precision that are needed by the advanced student or investigator. The shop connected with the School of Science is at the service of the department of physics, and apparatus needed for special researches may be constructed there.

New Physical Laboratory

Through the liberality of some friends of the University, a physical laboratory of the modern type is now building. It will be adequate for all the work of instruction, and will furnish ample facilities for advanced study and for research. A generous endowment has been given to provide for the necessary increase in the stock of apparatus and for the outlay connected with the conduct of research.

Buildings and Apparatus of the Department of Electrical Engineering

The magnetic observatory is a brick building without iron in its construction, situated on McCosh Walk, in a position in which it is, as far as possible, free from the disturbing influences of large masses of iron.

The laboratory is in the basement, where permanent piers, for the installation of instruments, are provided.

Among the instruments in the laboratory which deserve mention are a large physical balance, Thomson's quadrant and other forms of electrometers, specially constructed galvanometers by Edelmann, Hartmann, Nalder Brothers, and Elliott, Thomson's current balances, two large resistance boxes adjusted by Anthony, Post-office boxes, megohm box standard condenser, standards of induction and of

resistance. Besides these there is a full outfit of galvanometers, voltmeters, ammeters, and all other instruments needed in technical work or in exact investigation.

The dynamo building is connected with the School of Science building. The motive power for the machinery is furnished by a sixty horse-power boiler and a Ball engine. The dynamo plant consists of a Westinghouse alternate generator with a full set of transformers, a Westinghouse polyphase generator, a Westinghouse rotary converter, Mather, Edison, Brush arc, Eickemeyer, and Gramme generators, a machine constructed in the shop of the School of Science, Brush, Eickemeyer, and other motors. With these machines is a complete outfit of accessories, and a large rheostat of German silver used in testing. Arc and incandescent lamps are so arranged that the various systems of distribution may be studied.

The dynamo building is connected with the magnetic observatory by heavy copper wires, and by underground cables, so that the instruments of the magnetic observatory are available for experimental work with the dynamos. Four sets of storage batteries are also connected with the plant.

In addition to the above-described equipment, the plant of the University Power Company, for heating and lighting the University buildings, is available for purposes of experimental study in which the quantities to be measured are of the order of those met with in commercial applications. Their plant contains four 250 horse-power boilers, for power and steam heating; two 200 K. W. and one 100 K. W. direct connected alternate current generators; one motor-driven exciter and steam turbine-driven exciter; the station switch-board and a special experimental switch-board. The entire equipment of generators, transformers, motors, etc., is available for the use of the Department.

Chemical Laboratories

All courses in chemistry and in mineralogy are conducted in the chemical building, which is of fireproof construction, well lighted and ventilated.

The top floor of the building is mainly devoted to laboratories for students in the various courses for general, analytical, and organic chemistry, with private laboratories, weighing room, and storerooms. Each student has a separate desk, provided with water, gas, suction for filtering, and sink.

On the second floor are two large lecture-rooms, cabinets for specimens and lecture apparatus, and several private laboratories.

In the basement, in addition to storerooms and several private laboratories, are a mineral cabinet, a furnace room, and laboratories for blowpipe analysis, for assaying, and for physical chemistry.

Mineralogical Collections of the School of Science

There are two cabinets of minerals. The principal one contains over five thousand specimens, embracing the common mineral species and many of the rarer ones. Smaller cabinets, with labeled and unlabeled minerals, are provided for practice with the classes.

There is also a collection of specimens of typical rocks, together with a large number of Fuess's rock sections, as well as sections from other sources, for the study of lithology.

The department is provided also with section cutters, grinding lathes, and other appliances for the special study of minerals and rocks; including a complete Groth's polarizing apparatus with goniometer, a large Babinet goniometer, Norremberg's polarizing apparatus, petrographical microscopes, and minor apparatus.

Histological Laboratory

This laboratory, consisting of five rooms, is situated on the upper floor of the west wing of Nassau Hall. The rooms extend continuously from the western entrance to the E. M. Museum.

The first is a large room fitted up as a lecture-laboratory and has working places for twenty-eight men in undergraduate work. A very fine Zeiss projection outfit of modern construction forms part of the equipment of this room. It was presented to the laboratory by several members of the class of 1894 as a memorial to their classmate, John Miller Kennedy.

The next room, somewhat smaller, is for the advanced work in histology and for teaching histological technic. Here a class of twelve men can learn how to cut and mount sections of the tissues for study under the microscope. The centrifuge and water baths, as well as other ordinary apparatus, are operated in this room.

The assistant's room opens out of this last apartment and is used to prepare all tissues and slides for the several collections. The class collections of slides are arranged on shelves in this room as well as the collection of tissues in alcohol.

East of this room come two others, the first a well-lighted study for research men and fellows and the second the instructor's study and office. In the fellows' room are tables for two men and a well-equipped dark room opening from its rear end. The instructor's room contains the collection of over 5,000 bits of animal and vegetable tissues stored in paraffin blocks. The large collection of tissues on slides, some 30,000 specimens in all of well-selected types, illustrating all the tissues of the animal body in their various forms, is also stored here. These specimens are thin sections of the tissues, each stained and mounted in Canada balsam between two thin slips of glass for study under the microscope.

The laboratory is well equipped with microscopes made by Karl Zeiss & Co., of Jena, Germany, and the Bauch & Lomb Optical Co., of Rochester, N. Y.

Class of 1877 Biological Laboratory

This building, situated at the east end of Dickinson Hall, was presented to the University by the Class of 1877 at its decennial reunion. It is designed for the advanced courses in comparative anatomy and embryology. The main morphological laboratory, upon the second floor, is equipped for the instruction of undergraduates. This room has been fitted up with exhibition cases which, at present, contain about one thousand mounted preparations illustrating the comparative anatomy of vertebrates. New preparations are constantly being added to the collection through the efforts of a skillful preparator.

The first floor comprises the embryological laboratory, intended for the use of University students engaged in research. The basement is designed for aquaria. The laboratory is open to students during the day from 8 A. M. to 5 P. M.

Palæontological Laboratory

This laboratory has been fitted up in Nassau Hall to provide for practical instruction in the courses in palæontology. Each student has a table with drawers, etc., for his own use, where the study of fossil forms can be conveniently carried on. The very extensive collections of the geological museum furnish ample material for the general course in palæontology and stratigraphy, as well as for the purposes of research. A series of diagrams, maps, and models is provided, as are also microscopes and prepared slides for the examination of the minute structure of various extinct forms, both animal and vegetable.

For advanced students engaged in original investigations there are private rooms available.

Civil Engineering Laboratory and Apparatus

Through the generosity of the trustees of the John C. Green estate a separate building has been provided and equipped with suitable apparatus for training the students in civil engineering in the laboratory work of engineers. The building covers an area of about 7,000 square feet and is divided into five commodious rooms, in which the students are taught, in connection with and supplementing the corresponding theoretical studies, to make tests of structural forms and materials; to conduct trials of steam, gas, and other motors; to deduce from actual experiment laws and coefficients of flow through various kinds of orifices, weirs, and conduits; and to make reliable tests of cements, mortars, and concretes.

The additional apparatus has been carefully chosen with a view to its value as a means of cultivating the perceptive faculties of the student, of stimulating originality of thought, and of making clear many points in the later studies of the course which otherwise might remain ill-defined because imperfectly conceived. But its selection has also been influenced by the expectation that some of it will be employed in original investigation along lines of engineering knowledge as yet only partially developed.

There have been added to the previous laboratory equipment of the Department four new electrically driven testing machines, of different capacities, with all necessary accessories, the largest having a capacity of 200,000 pounds; a steam boiler of about seventy horse-power to furnish power and the means of conducting evaporative tests; a steam engine of fifty horse-power, provided with a dynamometer, and other appliances for testing power and efficiency; and an Otto gas engine of about six horse-power. The cement room is now provided with three standard cement testers, made by different makers of established reputation, and is amply equipped with other

paraphernalia of a cement testing establishment. The outfit of the hydraulic room is very complete in provisions for the control of pressures and volumes, and is unique in its use of large quantities of water in a very economic manner.

The illustrative apparatus of the Department covers a wide field, and comprises rail sections and joints, specimens of the products of iron and steel mills and of other building materials, models of water wheels, of trestles, of the details of joints of steel bridges and roofs, and of vaults and arches. A collection of lantern slides, especially selected for use in the classroom, has been provided, and includes a large number of views, in detail, of the New York and Brooklyn Roebling suspension bridge at different stages of its erection, as well as similar views of other structures. A 25-foot iron working model of a single-track railway bridge, with a complete outfit of falsework and other appliances for its erection, designed especially for this institution, is employed to illustrate by actual trial the modes of procedure in problems of erection.

The instruments provided for the course in geodesy represent the work of several instrument makers of high repute. They include a 12-inch geodetic transit; a large plane-table with telescopic alidade and a telemeter; engineer's, mining, and solar transits; wye and dumpy levels; surveyor's compasses; mercurial and aneroid barometers; sextants; heliotropes; numerous forms of standard linear measures; and a large assortment of reconnoitering instruments.

ATHLETIC GROUNDS AND BUILDINGS

The University Field

This field, which is large enough for two football games to be played simultaneously, is the scene of all University athletic contests and games held in Princeton. The entrance gateway is the gift of Ferris S. Thompson, Esq., of the class of '88. Besides the baseball ground and football field, there are a 220-yard straightaway and a quarter-mile cinder track and the following buildings: (1) The University Athletic Clubhouse, the gift of Professor Henry F. Osborn, class of 1877, containing training quarters, dining-room, parlor, bedrooms, baths, etc., and a trophy room, which is open to visitors. (2) The Cage for indoor winter practice, a well-lighted brick structure with a clear floor space of 60 x 140 feet. (3) The Field House, containing dressing-rooms, lockers, and baths for the University and visiting teams. (4) The Grand Stand, the gift of Mrs. John J. McCook, of New York. The clock in the peak of the roof is the gift of the Glee Club of 1890. (5) The Open Stands, the result of alumni subscriptions.

The Brokaw Field

This field was provided by the alumni for the benefit of undergraduates who are not members of the University teams. On a terrace are the University Tennis Courts, and above them is the Brokaw Memorial Gateway and Building, erected in 1892 by I. V. Brokaw, Esq., of New York, in memory of his son, Frederick Brokaw, of the class of 1892, who lost his life at Elberon, N. J., in 1891, while attempting to rescue a drowning girl. The building contains dressing-

rooms, shower-baths, and lockers for several hundred men. A wing contains a porcelain swimming pool 100 feet long by 25 feet wide.

Class of 1886 Memorial Building

This building, recently presented to the University by the Class of 1886, overlooks the Princeton golf course and commands an extensive view of the adjacent country.

The building contains ample provision in the way of bath and locker rooms, reception rooms, etc., designed for the use of members of the Princeton Golf Club, with dormitory and kitchen facilities, to be devoted to the use of the members of the Class of 1886.

The Princeton Golf Club

Students of the University are eligible to membership in the Princeton Golf Club, whose new eighteen-hole golf course covers 225 acres and is situated on University property.

PART VIII

EXPENSES, ALLOTMENT OF ROOMS, UNIVERSITY BILLS, PRIZES, SCHOLARSHIPS, REMISSION OF TUITION, AND CHARITABLE FUNDS

EXPENSES

Board, 36 weeks.....$4.00 to $8.00 per week.
Washing, 36 weeks.....60 cents per week.
Tuition and Public Room fee, Academic.....$150.00 per annum.
Tuition and Public Room fee, School of Science.....$160.00 per annum.
Laboratory fee, extra for each chemical course involving laboratory work, if taken by an Academic student.....$5.00 per term.
Room rent (according to location of room).....$18.00 to $175.00 per annum.
Heat, fixed charge (according to location of room).....$10.00 to $28.00 per annum.
Light, fixed charge (according to location of room).....$12.00 to $28.00 per annum.
Infirmary fee.....$7.00 per annum.
Gymnasium and Swimming Pool fee.....$7.00 per annum.
Examination fee, payable at time of taking entrance examinations (see a previous page).....$5.00
Graduation fee, payable second term, Senior year.....$12.00

For other special courses than that in Analytical Chemistry arrangements may be made upon consultation with the professor in charge.

Apparatus Deposits.—Students pursuing certain courses in the School of Science are required to make deposits to pay for apparatus injured or destroyed. At the end of the term any excess in favor of the student is placed to his credit on the bill for the next term. The deposits in the courses are: Chemistry—Sophomores and Juniors, $10; Seniors, $15. In Geodesy—Freshmen, second term, $10; Sophomores, second term, $15; Juniors, both terms, $10; Seniors, first term, $5.

Students taking any of the courses in Graphics will require a drafting outfit costing from $18 to $25.

ESTIMATE OF ANNUAL EXPENSES

Academic Department

Minimum, medium, and maximum estimates of the necessary expenses for one year of a student occupying an unfurnished room in a dormitory have been prepared as follows:

	Min.	*Medium*	*Max.*
Board, 36 weeks, at $4.00 to $8.00	$144.00	$180.00	$288.00
Washing, 36 weeks, at 60 cents per week,	21.60	21.60	21.60
Tuition and Public Room fees	150.00	150.00	150.00
Infirmary fee	7.00	7.00	7.00
Gymnasium and Swimming Pool fee	7.00	7.00	7.00
Room rent	30.00	90.00	200.00
Heat (per room)	10.00	19.00	28.00
Light (per room)	12.00	20.00	28.00

Books, clothes, furnishings for rooms, incidentals, and traveling and vacation expenses have not been included in these estimates.

RULES GOVERNING THE ALLOTMENT AND RENTAL OF ROOMS

(DECEMBER, 1901)

1. Rooms shall be assigned for occupation during the following academic year between the 15th of May and the 1st of June of each year.

2. This assignment shall embrace:

a. All rooms occupied by students whose connection with the University will terminate at the end of the academic year.

b. The rooms of all Seniors, whether with room-mate or not (unless the room may be retained by a graduate or for a brother, as elsewhere provided in the rules).

c. All rooms for which the lease has not been properly renewed.

3. An allotment may also take place at the close of the first term of each academic year for the purpose of assigning such rooms as may then fall vacant.

4. *a.* The assignment of rooms shall in all cases not herein specially excepted take place in such a manner that specific rooms shall be assigned by lot.

b. The rooms to be assigned shall be classified according to the amount of their rental in seven groups as follows:

(1) The first group shall embrace rooms whose rental is from $18 to $36, inclusive.

(2) The second group shall embrace rooms whose rental is from $40 to $66, inclusive.

(3) The third group shall embrace rooms whose rental is from $70 to $100, inclusive.

(4) The fourth group shall embrace rooms whose rental is from $105 to $140, inclusive.

(5) The fifth group shall embrace rooms whose rental is from $150 to $180, inclusive.

(6) The sixth group shall embrace rooms whose rental is from $200 to $240, inclusive.

(7) The seventh group shall embrace rooms whose rental is from $250 to $300, inclusive.

c. The applicants for rooms shall be divided into corresponding groups, each applicant being required to inform the Treasurer in writing before the 10th of May, or the 20th of January, as the case may be, both of his intention to enter the drawing and of the group in which he wishes to be placed.

Every applicant for a room shall agree beforehand, and shall be required, to take the room which may be assigned to him by lot in the group in which he has made application.

d. Each drawing shall begin with the first group and proceed from that group through the other groups successively in the order given above. Any applicant who does not obtain a room in the group to which he first asked to be assigned may be allowed to draw in any higher group.

e. If there be any rooms remaining unassigned after a drawing, such rooms may be assigned by subsequent allotment, at such time before the end of the year or of the term as the Treasurer may appoint; such supplementary allotment to be made under the same rules as the principal allotment, with this exception, that the rooms disposed of by means of it may be classified as above or not, at the discretion of the Treasurer.

f (*a*). Priority in the drawing shall be determined by the length of time the applicants have been members of the University. The first drawing shall include the names of all applicants who have been members of the University for more than one year. A second drawing shall include the

names of all applicants who have been members of the University one year or less.

f (*b*). If the application for a double room shall be signed by students who have been members of the University different lengths of time, it shall be classified, and placed in the drawing in which the student who has been a member of the University the shortest length of time would be placed.

g. New students shall have choice of any rooms remaining vacant at the time of their entering upon residence, in the order of their application after undergoing the entrance examinations for full standing, upon condition of immediately signing the lease required in all cases. [See Rule 5*a*.]

h. Double rooms shall be separately classified and allotted in accordance with the above regulations. Only such suites as consist of a study and two bedrooms shall be considered double rooms within the meaning of this clause. No double room shall be assigned to a single individual, nor shall it be within the privilege of any single individual to draw for a double room. Every application for a double room must give the names of two persons who intend to occupy the room together and who undertake to be jointly responsible for the rent of the same.

i. Whenever for any reason one of the occupants of a double room is permitted or obliged to cancel his room lease, the remaining occupant must vacate the room at the end of the current academic term, unless he agrees to pay the whole rent, or provide a room-mate who shall join him in signing a new lease for the remainder of the academic year.

5. *a*. The tenure and liabilities of those to whom rooms are assigned under these rules shall be the tenure and liabilities expressed in the following lease, which must be signed in the case of each room allotted by the student who

is to occupy it, and by his parent or guardian. This lease must be signed and delivered to the Treasurer in each case within ten days of the allotment, except in the case of new students, provided for under Rule 4*g*.

This agreement, made the day of , 190 , between the Trustees of Princeton University and of , witnesseth, that the said Trustees of Princeton University do hereby lease unto the said Room No. in the Entry of , to hold for the academic year of , paying therefor during the said term unto the said Trustees of Princeton University the yearly rent of $ in two equal payments, to be made the one within the first four weeks of the first term of the academic year, the other within the first four weeks of the second term of the academic year.

And the said covenants to pay the said rent in the manner and at the times aforesaid, and to deliver up the said premises to the said Trustees of Princeton University or its legal representative at the end of said term in as good condition as the same now are or may be put into by the said Trustees of Princeton University, reasonable use and wear and tear thereof, and fire and other casualty excepted. The said lessee also covenants that he will not do or suffer to be done any damage in the leased premises, and that, if any damage beyond reasonable wear and tear be done, he will cause the same to be made good as soon as possible at his own expense, employing for that purpose the proper University workmen, and paying the cost thereof at once to the University Treasurer, it being understood that the damage here meant includes the breakage of glass and locks, whether by accident or design. The said lessee further covenants that he will not sublet the same or any part thereof, nor permit any other person or persons to occupy the same or any part thereof, nor make nor suffer to be made any alteration therein without the consent of the

said Trustees of Princeton University for that purpose in writing first had and obtained. And the said lessee further covenants that the said Trustees of Princeton University through their authorized representative may enter the said premises for the purpose of viewing or making improvements therein at any reasonable times in the daytime, or at any other time for the legitimate purposes of University discipline. This lease is made on the express condition that it may be terminated by said Trustees through their representative.

b. Any occupant of a college room may retain his room until the end of his undergraduate or graduate course, provided he annually notify the Treasurer of his intention of retaining it and sign a new lease before the 1st of May, otherwise his room shall be considered vacant and shall be included in the next allotment. In case an occupant of a double room be left without a room-mate at the end of the academic year, he may renew his lease upon condition of naming another student of the University who will become joint lessee with him for the following year, unless the room-mate who leaves is a Senior or a fourth year special. It shall also be the privilege of any occupant of a college room to renew his lease at the end of his own tenure in the name of his brother, when that brother is to enter the University immediately.

c. The right to occupy a room is not transferable and terminates with the expiration of the lease. Any attempt on the part of the occupant of a college room to sell or transfer, directly or indirectly, his right of occupancy shall be deemed a fraudulent transaction. The penalty for violating this rule shall be forfeiture of the rooms by the new lessee.

d. The occupant of a college room shall deposit with the Curator the sum of 25 cents for each key to his room that may be furnished him by the University; and all

amounts paid under this clause shall be refunded upon return of the key or keys furnished.

6. The Committee on Grounds and Buildings shall engage a competent appraiser, not otherwise connected with the University, to determine the value of all beds (bedsteads, mattresses, and springs), chairs, tables, couches (including window seats and divans), washstands, crockery, bureaus, desks, carpets, and book-cases for sale in a room to be vacated. His decision shall be final in every appraisal. Under the general direction of the Treasurer, it shall be the duty of the appraiser to estimate separately the value of each of the above articles so offered for sale and to deposit with the Treasurer a complete list for each room of the articles appraised, with their several values affixed. The owner shall not be permitted, under any pretext, to sell to his successor any article for more than the appraised valuation. If he does not wish to sell at so low a price, then he must remove his property from the room. If his successor does not wish to purchase at appraised valuation, he may order that the property be removed from the room. All payments for appraised furniture in a room vacated or transferred must be made through the Treasurer's office, but nothing in the rules shall be construed to create a liability on the part of the University for damaged or missing articles. *All articles not in the above list* must be removed from the room within two weeks after such room is vacated.

7. No exchange of rooms shall be allowed unless formally sanctioned in writing by the Treasurer; and then only upon terms explicitly stated in a written application signed by both parties to the proposed exchange, and not in contravention of the spirit of these rules. Such applications shall be kept on file in the Treasurer's office.

8. When rooms are vacated during a term the rent shall be paid until the end of the term. An occupant of a

college room who expects to be absent on leave for a term may be released from the obligations of his lease, provided he notify the Treasurer before the beginning of the term during which he expects to be absent, and give up the room; but no abatement or drawback of room rent shall be allowed for any period less than a term, except in special cases to be stated in writing, and by permission of the Treasurer.

9. The Faculty of the University is directed to suspend or expel every student that may be found guilty of breaking or evading these rules or of injuring or interfering with the person or property of his successor in a room; or of aiding or abetting another in such transgression, evasion, injury, or interference. The Faculty and all its officers are instructed to take the utmost pains, by ordinary or extraordinary means, to discover such offenders and prevent such offences.

The Faculty is further instructed to report, with the evidence discovered, the name of any graduate or outsider that may be guilty of such offences to the Committee on Grounds and Buildings; and said Committee is authorized and directed to procure legal counsel and when the evidence seems to justify it to take appropriate legal proceedings against any and every offender before a court of law.

UNIVERSITY BILLS

All University expenses, including board, must be paid in advance to the Treasurer of the University.

Students may take their meals at any house approved by the Curator; with the exception of Freshmen, all of whom are required to board at the University Dining Halls.

Students are required to call at the Treasurer's office in the course of the first ten days of each term, and to give information as to their place of boarding, etc., so that their bills can be made out. All bills must be paid within the first four weeks of the term. Failure to comply with this rule will deprive the student of the privileges of the University until payment is made, unless excused by special vote of the Faculty.

When a student enters the University before the middle of the term, he shall pay in full the usual charges for that term, with the exception of the charges for board; if he enter after the middle of the term, he shall pay one-half. For board he shall pay in proportion to the time.

When a student leaves the University, whether voluntarily or by dismissal, before the middle of any term, one-half of the charges for tuition and public rooms for that term shall be refunded. But in the case of temporary absence and subsequent return, although the absence be for more than half a term, no such rebate shall be granted.

When a student is dismissed from the University for any cause, the advance deposit for board, heat, and light, beyond the time of dismissal, shall be refunded to his parent or guardian.

When at the end of the first term the amount of the

advance deposit proves to be in excess of the sum required to defray the board or room bills of any student, the excess shall be credited on his bill for the next term. At the end of the academic year the amounts overpaid by the members of the *graduating class* for board, room rent, heat, and light shall be refunded by the Treasurer to the student's parent or guardian. The parent or guardian of *every undergraduate* will be advised of the amount of excess to the credit of his son or ward, and such amount will be *carried over to his credit on the bill of the first term of the following year*. In case of withdrawal or dismissal from the University of any undergraduate at the end of the college year, such excess will be refunded by the Treasurer to the parent or guardian, when informed by the Clerk of the Faculty that such undergraduate has been withdrawn or dismissed from the University.

PRIZES

Alexander Guthrie McCosh Prize

The interest of $1,500 will be given annually to that member of the Senior class who shall write the best essay in philosophy, including psychology, logic, metaphysics, and the history of philosophy. The subject of the essay for the present year will be, Heredity. It must be handed in on or before June 1.

Lynde Debate Prizes

Three prizes—the income of $5,000, contributed by Charles R. Lynde, Esq.,—will be awarded by a committee, appointed by the Faculty, to the three successful competitors in a debate on the Tuesday evening preceding Commencement. The competitors are six members of the Senior class—representatives of the Literary Societies—selected by committees appointed by the Societies respectively from their own members in the Faculty.

Baird Prizes

Through the liberality of Charles O. Baird, Esq., the following prizes, representing the income of $6,000, will be given to those who excel in the oratorical exercises of the Senior class, viz.: The Baird Prize of $100 to the best speaker of those who have ranked among the first six writers in any two of the three departments of English literature, rhetoric, and oratory; a prize for oratory of $50 to the best speaker, exclusive of the Baird Prizeman, of those who, in the same departments, have ranked among the first twelve writers; a prize for delivery of $30 to the best

speaker exclusive of the two just mentioned; also, a prize for poetry of $50; and two prizes of $40 and $30, respectively, for the best and second best written disputations.

Class of 1859 Prize

The interest of $2,000, given by the Class of 1859, will be awarded to that member of the Senior class who shall write the best essay on the novels of Walter Scott, and pass the best examination on *Measure for Measure*. The essay must be handed in on or before June 1, and the examination will be held in June. The subject of the essay for the Class of 1909 will be John Keats.

George Potts Bible Prizes

The yearly interest of $1,000, given in 1867 by Mrs. Sarah A. Brown, expended in the purchase of two copies of Matthew Henry's Commentary on the Bible, will be presented to the best two Biblical scholars of the Senior class at the end of their course.

Lyman H. Atwater Prize in Political Science

This prize, being the annual interest on the sum of $1,000, contributed by the Class of 1883, was instituted as a memorial of the Rev. Lyman H. Atwater, D.D., LL.D., Professor of Political Science. It will be given to that member of the Senior class who shall have passed the best examination and written the best thesis on some subject in political science, to be assigned by the professors in charge of the Department of Jurisprudence and Politics.

The thesis must be ready June 1; the examination will be held on that day.

Frederick Barnard White Prize in Architecture

The late Mrs. Norman White established in memory of her son, Frederick Barnard White, of the class of 1883, a

prize in architecture, yielding $50. The prize is open to the entire Junior and Senior classes and to special students who take a full schedule of studies. The subject of the essay for this year is, The Development of the Greek Archaic Temple. The subject of the examination is, Greek Architecture. The essay should be presented before June 1.

Theodore Cuyler Prize in Economics

The interest of $5,000, presented by C. C. Cuyler, Esq., of the Class of 1879, will be given to that member of the Senior class who shall present the best thesis and pass the best examination in June on some subject in political economy, to be assigned by the professors in charge of that department. The subject for the thesis of 1908 will be, An Estimate of Fabian Socialism; the examination will be on Economic Theory and will be based on Mill, Marshall, and Fetter.

Class of 1869 Prize in Ethics

The annual interest of $3,000, given by the Class of 1869, will be awarded to that member of the Senior class who shall pass the best examination in ethics and write the best essay. The essay to be presented on or before June 1. The subject of the essay for the Class of 1908 will be, A Criticism of Green's *Prolegomena*.

C. O. Joline Prize in American Political History

The sum of $50 will be awarded annually at Commencement to that member of the graduating class who shall have maintained a creditable standing in the subject of American history, and who shall have submitted the best written dissertation upon some subject of American history, assigned by the professor in charge of that department, and based in part at least, upon original investigation.

The dissertation must be at least 5,000 words in length

and must be accompanied by a bibliography of the subject. Specific references to the sources used must be given throughout.

The prize shall be awarded by the professor or professors in charge of the department of American history.

New York Herald Prize

The yearly interest of $1,000, presented by James Gordon Bennett, Esq., will be given to that member of the Senior class, or to the special student of satisfactory standing, who shall have taken for both terms of Senior year at least two of the courses given by the Department of History, Politics, and Economics, and at least one course in English literature for both terms, and who shall have presented the best thesis in English prose upon some subject of contemporaneous interest in the domestic or foreign policy of the United States Government. The thesis must be ready by June 1.

Wood Legacy

The sum of $150, the income of a legacy of Dr. George B. Wood, will be awarded to that member of the Junior class who shall stand highest for the Junior year.

Junior Orator Medals and Maclean Prize

Four gold medals, or books of equal value, will be awarded by a committee, appointed by the Board of Trustees, to the four successful competitors in an oratorical contest during Commencement week. The competitors are eight members of the Junior class—four from the Cliosophic and four from the American Whig Societies—selected by committees appointed by the Societies respectively from their own members in the Faculty.

The Maclean Prize, founded by the will of the late Henry A. Stinnecke, consisting of the sum of $100, will be

given to that one of the orators chosen by the Literary Societies from the Junior class who shall during Commencement week pronounce the best English oration.

The committee of judges will be composed of a professor of English and two graduates of the University not members of the Faculty.

Dickinson Prize

The Dickinson Prize, founded in 1782 by the Hon. John Dickinson, of New Jersey, Governor of Pennsylvania and Delaware, consisting of a medal of the value of $60 (or its equivalent in money), will be awarded to that member of the Junior class who shall write the best dissertation upon a theme in logic; the dissertation to be presented on or before June 1. The subject of the dissertation: The Theory of Judgment.

Class of 1876 Memorial Prize for Debate in Political Science

This prize is to be given annually by the Class of 1876 to the successful contestant in a debate on a subject of current interest in American politics, to be held on Washington's Birthday, said prize to be the interest of $2,000. The competitors, four in number, one from each class, are to be chosen by a vote of their respective classes.

Class of 1870 Junior English Prize

Of the yearly interest of $1,500, one-half will be given to the best Old English scholar, and one-half to the best English literature scholar of the Junior Academic class, electing the English Department.

Thomas B. Wanamaker English Language Prize

This prize, the yearly interest of $1,000, will be given to that member of the Junior Academic class, electing the

English Department, who shall pass the best examination in English philology, and write the best thesis on some assigned topic therein.

Mary Cunningham Humphreys Junior German Prize

A prize of $40, established by the late Professor Willard Humphreys in memory of his mother, Mary Cunningham Humphreys, will be awarded to that member of the Junior class who, having elected both Junior German courses (German 31–32 and 33–34), shall, at the close of the second term, pass the best examination on the work of the term and on the lives of the authors whose works have been the principal subjects of the year's study.

Stinnecke Prize

The Stinnecke Foundation was established in 1870 by the will of the late Henry A. Stinnecke, of the class of 1861, and was supplemented by a bequest received in 1876 from his aunt, Miss Maria Stinnecke. The income is divided between the Stinnecke Scholarship of $500 and the Maclean Prize of $100.

The Stinnecke Scholarship, of the annual value of $500, tenable during the undergraduate course, unless forfeited by neglect of study, "was given to that person who, having entered the Sophomore class, passed the best examination at the opening of the session in September, 1905, in the Odes of Horace, the Eclogues of Virgil, and the Latin Grammar and Prosody, as well as the Anabasis or Cyropædia of Xenophon and the Greek Grammar." Students of the University who have been members of the Freshman class, as well as new students entering the Sophomore class, will be admitted to such examination. The committee of examiners is appointed by the Board of Trustees. The next competition for this scholarship will be held in the autumn of 1908.

Class of 1861 Prize

The interest of $1,200, given by the Class of 1861, will be awarded to the member of the Sophomore class who shall pass the best examination at the end of the year on the honors mathematics of the Sophomore year.

Francis Biddle Sophomore Essay Prize

This prize, the yearly interest of $500, will be given to that member of the Sophomore class, not below the fourth group in his English studies, who, in the judgment of a committee appointed by the Faculty, shall write the best English essay of the year.

Class of 1870 Sophomore English Prize

This prize, the yearly interest of $1,000, will be given to that member of the Sophomore Academic class who shall pass the best examination on the English studies of the year.

Spencer Trask Debating Fund

The interest of $3,000, given by Spencer Trask, Esq., of New York City, is used to promote debating. At present one-third of the interest is awarded to the best debaters in the trials for the intercollegiate debate with Yale; one-third to the best debater in the trials for the intercollegiate debate with Harvard; and one-third for general debating expenses.

Class of 1883 Prizes for English in the School of Science

Class of 1883 English Prize for Juniors in B.S. and Litt. B. Courses.—This prize, the annual interest of $1,000, will be given to that member of the Junior class, a candidate for the degree of B.S. or Litt.B., electing all courses in the English Department, who shall have passed the best

examination in English philology and submitted the best essay on a subject in English literature assigned by the English Department.

Class of 1883 English Prize for Freshmen in Civil Engineering Course.—This prize, the annual interest of $1,000, will be given to that member of the Freshman class, in the civil engineering course, who shall have done the best work in the English studies of the Freshman year, and shall have submitted the best essay on a subject assigned by the English Department.

Philo Sherman Bennett Prize in Political Science

The interest on the sum of four hundred dollars, the gift of the late Philo Sherman Bennett, of New Haven, Connecticut, to be bestowed on that member of the Senior or Junior class of the University who shall write the best essay discussing the principles of free government. The essay must be in the hands of the Professor of Politics by the first of June.

Orange Alumni Association Prize Scholarship

The scholarship, the income from $4,000 given by the Princeton Alumni Association of the Oranges, will be awarded in accordance with the following conditions:

I. Only those are eligible to compete for this scholarship whose parents or family shall at the time of the competition have been resident for at least one year in the district of the Princeton Alumni Association of the Oranges, and who themselves are in residence at Princeton as regular members of the Freshman class in a course leading to a Bachelor's degree.

II. For those eligible to compete for this scholarship a special examination shall be arranged as early in the first term as may be convenient, the material of which shall be

selected from the subjects required for entrance. The Faculty shall name as winner of the scholarship that student who stands highest in this examination, and as alternate the student who stands next highest. This alternate may become the holder of the scholarship in case of the death or removal of the winner.

III. The scholarship shall be retained by its winner during his Freshman and Sophomore years, provided that in his studies he maintains a rank not below the second general group and that he does not come under serious discipline for misconduct.

The next competition for this scholarship will be held in the autumn of 1909.

SCHOLARSHIPS

ENDOWED SCHOLARSHIPS

The first scholarships were established in 1854. Between that time and 1903 one hundred and eleven scholarships, amounting to $114,500, were founded. The income from these, with the exception of the ELIZABETH VAN CLEVE Scholarship, is for the benefit of candidates for the degree of Bachelor of Arts.

SCHOLARSHIPS FOUNDED BETWEEN 1854 AND 1903

1–3.	The COLT Scholarships, founded by Roswell Colt, Esq., of Paterson, N. J.,	$3000
4.	The NEWKIRK Scholarship, founded by Matthew Newkirk, Esq., of Philadelphia,	1000
5.	The JOHN JOSEPH RANKIN Memorial Scholarship, founded by his father, William Rankin, Esq., of Newark, N. J.,	1000
6.	The CRESSWELL Scholarship, founded by A. Cresswell, Esq., of Kishacoquillas, Pa.,	1000
7.	The ISAAC N. RANKIN Scholarship, founded by Isaac N. Rankin, Esq., of Newark, N. J.,	1000
8.	The MUSGRAVE Scholarship, founded by Rev. George W. Musgrave, D.D.,	1000
9.	The COGSWELL Scholarship, founded by Rev. Jonathan Cogswell, D.D.,	1000
10.	The GREEN Scholarship, founded by Hon. Henry W. Green, LL.D.,	1000
11–15.	The LENOX Scholarships, founded by James Lenox, Esq., of New York,	5000
16.	The HODGE Scholarship, founded by Dr. Hugh L. Hodge, of Philadelphia,	1000
17.	The A. B. BAYLIS Scholarship, founded by A. B. Baylis, Esq., of Brooklyn,	1000

18. The HENRY J. VAN DYKE Scholarship, founded by Geo. L. Sampson, Esq., of Brooklyn, $1000
19. The GREGORY Scholarship, founded by Dudley S. Gregory, Esq., of Jersey City, 1000
20. The FIRST PRESBYTERIAN CHURCH OF PEEKSKILL Scholarship, founded by members of the Church, 1000
21. The VAN VORST Scholarship, founded by the Hon. John Van Vorst, of Jersey City, 1000
22. The JANEWAY Scholarship, founded by Rev. Jacob J. Janeway, D.D., 1000
23. The PRESBYTERIAN CHURCH OF HUNTINGTON, L. I., Scholarship, founded by the ladies of the Church, 1000
24. The BACKUS Scholarship, founded by E. F. Backus, Esq., of Philadelphia, 1000
25. The VAN SINDEREN Memorial Scholarship, founded by Mrs. and Miss Van Sinderen, of Brooklyn, 1000
26. The NORRIS HALSTED Scholarship, founded by Gen. N. Norris Halsted, of Newark, N. J., 1000
27. The MACLEAN Scholarship, founded by Drs. John and George M. Maclean, 1000
28. The HAINES Scholarship, founded by Richard T. Haines, Esq., of Elizabeth, N. J., 1000
29. The JACKSON Scholarship, founded by Hon. John P. Jackson, of Newark, N. J., 1000
30. The TUTTLE Scholarship, founded by Joseph N. Tuttle, Esq., of Newark, N. J., 1000
31. The GERTRUDE N. WOODHULL Memorial Scholarship, founded by her son, Dr. John N. Woodhull. of Princeton. 1000
32. The NATHANIEL W. TOWNSEND Memorial Scholarship, founded by his daughter, Mrs. Daniel Haines, 1000
33. The FIRST PRESBYTERIAN CHURCH OF BRIDGETON Scholarship, founded by members of the Church, 1000
34. The SKIDMORE Scholarship, founded by Joseph R. Skidmore, Esq., of New York, 1000

35. The SPENCER Scholarship, founded by I. S. Spencer, Esq., $1000
36. The JEREMIAH D. LALOR Memorial Scholarship, founded by a friend, 1000
37. The MARQUAND Scholarship, founded by Frederick Marquand, Esq., of Southport, Conn., 1000
38. The FIRST PRESBYTERIAN CHURCH OF TRENTON Scholarship, founded by members of the Church, 1000
39. The CAMERON Scholarship, founded by Hons. Simon and Donald Cameron, 1000
40. The SECOND PRESBYTERIAN CHURCH OF ELIZABETH Scholarship, founded by members of the Church, 1000
41. The C. S. BAYLIS Scholarship, founded by Charles S. Baylis, Esq., of Brooklyn, 1000
42. The ELIZA MUSGRAVE GIGER Memorial Scholarship, founded by her son, Prof. George M. Giger, D.D., 1000
43. The BLAIR Scholarship, founded by James Blair, Esq., of Scranton, Pa., 1000
44. The PENNINGTON Scholarship, founded by Dr. Samuel H. Pennington, of Newark, N. J., 1000
45. The FENTON Scholarship, founded by Aaron Fenton, Esq., 1000
46. The TRASK Scholarship, founded by Alanson Trask, Esq., of Brooklyn, 1000
47. The WITHINGTON Scholarship, founded by Chandler Withington, Esq., of Kingston, N. J., 1000
48. The NEWARK Scholarship, founded by the will of Henry Rogers, Esq., of Newark, N. J., 1000
49. The CARTER Scholarship, founded by Aaron Carter, Esq., of Newark, N. J., 1000
50–54. The HOLMES Scholarships, founded by Capt. Silas Holmes, of New York, 5000
55. The COLWELL Scholarship, founded by Stephen Colwell, Esq., of Philadelphia, 1000
56. The AITKEN Scholarship, founded by John Aitken, Esq., of New York, 1000

57. The BULLARD Scholarship, founded by Mrs. P. Bullard, $1000
58. The NEHEMIAH PERRY Scholarship, founded by the Hon. Nehemiah Perry, of Newark, N. J., 1000
59. The CHARLES DICKINSON HAMILL Memorial Scholarship, founded by his father, the Rev. Samuel M. Hamill, D.D., 1000
60. The CYRENIUS BEERS Memorial Scholarship, founded by his daughter, Miss Julia Beers, 1000
61. The JACOBUS Scholarship, founded by Peter Jacobus, Esq., of Newark, N. J., 1000
62. The MATTHEW B. HOPE Scholarship, founded by the Trustees as an acknowledgment of the services of Prof. Hope in raising an endowment of over $100,000, 1000
63. The JOHN MACLEAN Scholarship, founded by a friend of President Maclean, 1000
64. The WHITE Scholarship, founded by William White, Esq., 1000
65. The ELIZABETH VAN CLEVE Scholarship, founded by Hon. C. S. Green, of Trenton, N. J., 2000
66. The BLOOMFIELD Scholarship, founded by Hon. Amzi Dodd, of Bloomfield, N. J., 1000
67. The FLAGLER Scholarship Fund, the gift of Henry M. Flagler, Esq., of New York City, 1500
68. The JAMES McCOSH Scholarship, founded by friends of President McCosh in New York City, 1000
69. The WISTAR MORRIS WOOD and CHARLES MORRIS WOOD Scholarship, founded by their father, Charles Wood, D.D., of Germantown, Pa., 2000
70. The CLASS OF 1856 Scholarship, founded by members of the Class of 1856, 1000
71. The CLASS OF 1841 Scholarship, founded by members of the Class of 1841, 1000
72. The ALBERT DOD BROWN Memorial Scholarship, founded by his mother, Mrs. Susan D. Brown, of Princeton, N. J., 1000

73–82. The JONATHAN DICKINSON Scholarship,
The AARON BURR Scholarship,
The JONATHAN EDWARDS Scholarship,
The SAMUEL DAVIES Scholarship,
The SAMUEL FINLEY Scholarship,
The JOHN WITHERSPOON Scholarship,
The SAMUEL STANHOPE SMITH Scholarship,
The ASHBEL GREEN Scholarship,
The JAMES CARNAHAN Scholarship,
The FRANCIS L. PATTON Scholarship,
founded by Miss Rachel L. Kennedy, New York, $10,000

83–87. The KENNEDY Scholarships, founded by Miss Rachel L. Kennedy, New York, 5000

88. The A. O. HEADLEY Scholarship, founded by A. O. Headley, Esq., of Newark, N. J., 1000

89. The HARVEY LINDSLEY Memorial Scholarship, founded by Mrs. Emeline Coney Lindsley, 1000

90. The BUTLER Scholarship, founded by William Allen Butler, Jr., Esq., 1500

91. The BROKAW Scholarship, founded by Isaac V. Brokaw, Esq., of New York, 1000

92. The EZRA NYE Memorial Scholarship, founded by his son-in-law, F. Wolcott Jackson, Esq., of Newark, N. J., 1000

93. The GRACE NEWCOMBE DENNING Scholarship, founded by Mrs. William Moir, of New York, 1500

94. Founded by a friend, 1000

95, 96. The MCCORMICK Scholarships, founded by Mrs. McCormick, of Chicago, 2000

97. The WILLIAM CAMPBELL TRUESDELL Memorial Scholarship, founded by his father, Warren N. Truesdell, Esq., of Newark, N. J., 1000

98. The HENRY M. ALEXANDER Scholarship, founded by a friend, 1000

99. The JOHN C. D. MATTHEWS Memorial Scholarship, founded by his mother, Mrs. Mary R. Matthews, of Newark, N. J., 1000

100. The MCCORD Scholarship, founded by J. D. McCord, Esq., of Philadelphia, 1000

101–105.	The WALLACE Memorial Scholarships, founded in memory of William C. Wallace, of the class of '23, by his daughters, Mrs. Allen and Miss Wallace, of Newark, N. J.,	$5000
106.	The ROBERT VOORHEES Scholarship, founded by Mrs. Susan V. Clark,	1000
107.	The J. S. BONSALL Scholarship, founded by Mrs. Susan Bonsall,	1000
108.	The LAURANCE FIELD STEVENS Memorial Scholarship, founded by his father, Herbert B. Stevens, Esq., of Greenwich, Conn.,	1000
109.	The RICHARDS Scholarship, founded by Harry E. Richards, M.D., of Bloomfield, N. J.,	1000
110–111.	The FINLEY and BREESE Scholarships, founded by a bequest of Samuel F. B. Morse,	2000

In 1903 the Trustees adopted the following rules for the endowment and administration of scholarships:

I. A scholarship in any undergraduate department of the University may be endowed by the payment to the Treasurer of the sum of twenty-five hundred dollars.

II. A scholarship shall entitle the incumbent to receive remission of one hundred dollars per annum from the charge for tuition.

III. The right to nominate the incumbent of a scholarship may rest with the donor, if an individual, during his or her lifetime, and if an institution or alumni association, for a period of twenty-five years. At the end of this period or at the death of the donor, the right of nomination shall revert to and rest with the Faculty of the University.

IV. All scholarships shall be held subject to such rules as may be adopted from time to time by the Faculty of the University.

Since the adoption of these rules the following scholarships have been founded:

112. The MAHLON LONG Scholarship, founded by the Rev. George Wells Ely, of Columbia, Pa., $10,000
113. The JOHN LINN PATTON Scholarship, founded by Mr. and Mrs. William A. Patton, of Philadelphia, in memory of their son, John Linn Patton, of the class of 1903, 2500
114. The JOHN H. CONVERSE Scholarship, founded by John H. Converse, Esq., of Philadelphia, 2500
115. The JOHN W. CONVERSE Scholarship, founded by John H. Converse, Esq., of Philadelphia, 2500
116. The ROBERT STOCKTON PYNE Memorial Scholarship, founded by his mother, Mrs. M. Taylor Pyne, of Princeton, 2500
117. The FREDERICK WOLCOTT JACKSON Scholarship, founded by Philip N. Jackson, Esq., of Newark, N. J., 2500
118. The ANDREW WHITE GREEN Scholarship, founded by Cornelius C. Cuyler, Esq., of New York, 5000
119. The HENRY S. GANSEVOORT Memorial Scholarship, founded by his sister, Mrs. Abraham Lansing, of Albany, N. Y. 2500

It is customary to assign these scholarships, when they become vacant, to undergraduates who have been members of the University for at least one year, and who are considered most worthy to receive the benefit.

UNIVERSITY SCHOLARSHIPS

From the income derived from scholarships founded prior to 1903 forty University Scholarships have been established; ten "A" Scholarships of the annual value of one hundred and fifty dollars each, and thirty "B" Scholarships of the annual value of one hundred and twenty-five dollars each. During the summer these scholarships will be awarded for the first term to members of the Senior,

Junior, and Sophomore classes who are candidates for the degree of Bachelor of Arts, and who have previously received remission of tuition, in accordance with the following rules:

(a) The ten "A" Scholarships will be awarded to those students whose standing during the previous year was in the first general group. If more than ten students are eligible, award will be made according to seniority of class.

(b) The thirty "B" Scholarships will be awarded to those students whose standing during the previous year was in the second general group. If more than thirty students are eligible, award will be made according to seniority of class.

University Scholarships are awarded in all cases for one term and subject to the following conditions:

I. The holder must be regular in his attendance at his college exercises and free from serious discipline.

II. His general group, as shown by his latest semi-annual report, must not be below that in which he stood when the scholarship was awarded to him.

III. His college bill for one term for board, room rent, light, and heat must not exceed one hundred and fifty dollars.

The holder of a University Scholarship who has fulfilled these conditions during the first term of a college year is entitled to the scholarship for the second term of that year without further action on his part.

REMISSION OF TUITION

In order that candidates for the degree of Bachelor of Arts, of insufficient means and of more than ordinary intellectual ability, may be enabled to secure an education, it is customary for the Faculty to remit a part (never more than fifty dollars a term) of the charge for tuition of those applicants who present satisfactory testimonials as to scholarship and character, and proof that the assistance is absolutely needed. This remission is in the form of a loan, and all applicants who receive it are required to sign a non-interest-bearing note.

Remission of tuition is granted in all cases for one term and subject to the following conditions:

I. The student must be regular in attendance at his college exercises and free from serious discipline.

II. His stand, as shown by his latest semi-annual report, must not be below the third general group.

III. His college bill for one term for board, room rent, light, and heat must not exceed one hundred and fifty dollars.

A student who has fulfilled these conditions during the first term of a college year is entitled to remission of a like amount of the charge for tuition for the second term of that year without further action on his part.

For application blanks and further information apply to Charles W. McAlpin, Esq., Secretary of the University.

FUNDS FOR CANDIDATES FOR THE MINISTRY

THE RICHARDS FUND.—A bequest of Mrs. Esther Richards, of New York, amounting to $2,970.32, for the benefit of candidates for the ministry. Received in 1790.

THE LESLIE FUND.—A bequest of James Leslie, of New York, of the class of 1759, amounting to $10,677.49, for "the education of poor and pious youth with a view to the ministry of the Gospel in the Presbyterian Church." Received in 1792.

THE HODGE FUND.—A bequest of Hugh Hodge, of Philadelphia, of a house and lot on Market street, above Second (No. 205), "to be held by the Trustees in trust, to lease out from time to time, and the rents to be applied to the support and education of pious youth for the ministry." Received in 1805.

For application blanks for aid from the funds for candidates for the ministry apply to Charles W. McAlpin, Esq., Secretary of the University.

CHARITABLE FUND

THE VAN ARSDALE FUND.—A bequest of Robert Van Arsdale, of Newark, N. J., of the class of 1826, amounting to $3,000, "in trust for promoting charitable instruction in the College of New Jersey, according to the discretion of the Faculty." Received in 1875.

Applications for aid from the Van Arsdale Fund should be made to Professor Henry B. Fine, Dean of the Faculty.

PART IX

DEGREES AND HONORS, 1906–1907

DEGREES CONFERRED, 1906–1907

DEGREES IN COURSE, CONFERRED DECEMBER, 1906

A.B.—John Dwight Eells, as of the class of 1906
C.E.—William Fitzhugh Turner, as of the class of 1906

DEGREES IN COURSE, CONFERRED MARCH, 1907

A.B.—Wynn Armstrong, as of the class of 1906
Irwin Dunn Coyle, as of the class of 1906
Carl Northrup Dailey, as of the class of 1906
Joseph Edward Durham, Jr., as of the class of 1906
Walter Tomkins Odell, as of the class of 1906
Frank Bingham Rollins, as of the class of 1906
Henri Schwob, as of the class of 1906
LITT.B.—Brownlee Harper Gibson, as of the class of 1906
Amos Nathan Hoagland, as of the class of 1906
George Anthony Hopkins, as of the class of 1906
Harry Lawson Moore, as of the class of 1906
Lewis Spencer Morris, as of the class of 1906
Warren Calvin Whitney, as of the class of 1906
B.S.—Adron Leigh Swan, as of the class of 1906
A.M.—Edmund James Gwynn, Illinois Wesleyan University, 1887
James Alexander McAllister, Pennsylvania College, 1898
Walter Everett Smith, New Windsor College, 1895

HONORARY DEGREES, CONFERRED JUNE, 1907

LL.D.—Alexander Crombie Humphreys
Edward Gamaliel Janeway
Charles Edward Phelps
John Stewart
A.M.—Harry Elmer Bierly
John Janvier Black
John Alexander Campbell
Frederic Courtland Penfield

DEGREES IN COURSE, CONFERRED JUNE, 1907

DOCTORS OF PHILOSOPHY (*Ph.D.*)..... 3

Claude Silbert Hudson, B.S., 1901
Anson Ely Morse, A.B., 1902
Harvey Ernest Jordan, A.B., 1903

MASTERS OF ARTS.....49

William Marvin Spalding, 1887
Wilson Aull, 1891
Samuel Gayle Riley, 1896
James Hugh Moffatt, 1900
William Franklin Goodwin Thacher, 1900
John Van Antwerp MacMurray, 1902
Arthur Tyrrell Dear, 1903
Walter Franklin Hollenbach, 1903
George Barry Duffield, 1904
Andrew Augustus Smith, 1904
Rolland Drew Stevens, 1904
George Kane, Jr., 1905
John McCahan White, 1905
John Louis Winnemore, 1905
George Hoffman Cresse, 1906
Thomas Jex Preston, Jr., 1906
Charles Muthart Rebert, 1906
George Samuel Spohn, 1906
Percy Linwood Urban, 1906

Oswald Thompson Allis, *University of Pennsylvania*, 1901
Oscar Vance Armstrong, *Washington and Lee University*, 1905
Frank Ernest Beatty, *University of Wooster*, 1904
Albert Deems Betts, *Wofford College*, 1905
Frederick Hilton Bostian, *Roanoke College*, 1906
Oscar Davis Brownback, *Ursinus College*, 1904
William Arthur Cook, *Westminster College, Mo.*, 1898
Olin Davis, *Roanoke College*, 1906
Arthur Raymond Eckels, *Coe College*, 1904
Arthur Abram Fellstrom, *Simpson College*, 1904
John Bohn Ferguson, *Miami University*, 1903
George Herman Fickes, *Lafayette College*, 1905
Robert Guthrie Freeman, *Allegheny College*, 1904
Herbert Adams Gibbons, *University of Pennsylvania*, 1902
Luther Newton Hayes, *University of Wooster*, 1905
Kosuké Hiromasa, *Waseda University*, 1905
James Willard Hood, *Harvard University*, 1906
Lowry Wilson Jenkins, *Erskine College*, 1902
William Wallace Johnston, *Lafayette College*, 1904
Lloyd Annesley Joseph, *Royal College, Ceylon*, 1898
Henry Douglas McCallie, *University of Virginia*, 1904

Joseph Bolton Cooper Mackie, *Geneva College*, 1904
Henry Conrad Ostrom, *Augustana College*, 1895
Charles Henry Pratt, *King College*, 1902
William Carson Press, *Westminster College*, 1904
Charles Fletcher Quillian, *Emory College*, 1903
Lloyd Harold Snyder, *Franklin and Marshall College*, 1906
LeRoy Thompson, *Washington and Lee University*, 1904
Lester Port Warford, *New York University*, 1905
Ernest William Warrington, *Delaware College*, 1905

MASTERS OF SCIENCE (*M.S.*)..... 2

William Penn Vail B.S. 1902
Thomas Arthur Rutherford, B.S. 1903

ELECTRICAL ENGINEERS..... 4

Charles de Hart Brower, Jr., A. B. Princeton, 1904
Gordon Forbes, C. E. Princeton, 1905
Edward Karow, Jr., C. E. Princeton, 1905
Nicholas Stahl, A. B. Princeton, 1897, A. M. Princeton, 1898

BACHELORS OF ARTS (*A.B.*).....143

Frederic Stacy Ackley
Albert Lloyd Adams
Preston Morris Albro
Monroe Heebner Anders
Dudley Hammond Barrows
Walter Loring Barrows
Morey Cutler Bartholomew
Howard Conklin Baskerville
Albert Daniel Beers
Edward Welles Bixby
Allen McKee Bond
George Archibald Brakeley
George Stuart Bready
Henry Skillman Breckinridge
Ralph Chadwick Brownell
Benjamin Franklin Bunn
John Paul Burkhart
John Renshaw Chislett
Cassius Brutus Clark
Sidney Thompson Coale
Samuel Dresher Conver
James Lawrence Cooney
Lowrie Danskin Cory
Hubertis Maurice Cummings
John Howard Cunningham
William Morton Clair Daggette
Roblin Henry Davis
Charles Price Deems
Herbert Lowell Dillon
Robert Allan Draper
George Morgan Duff
Charles Wesley Dunn
Thomas Jackson Durell
Burchard Dutcher
John Wainwright Evans
Frank Ingersoll Farrell

Arthur Boughton Fowler
William Archibald Frontz
Erwin Deaterley Funk
Robert Barnes Galt
James Garretson
Howard James Gee
Frank Purnell Glass
Horace Zweizig Goas
F Laurence Goodwin
James Gay Gordon, Jr.
Thaddeus Gorecki
Harry William Haight
Harvey S. Haney
Raleigh Hammond Hansl
Walter Abraham Henricks
Herman Cleveland Herbert Herold, Jr.
Horace Terhune Herrick
Donald Grant Herring
Joseph Frederick Hewitt
Austin Latting Hobbs
David Munro Hooks
George Dare Hopkins
Edmund Orlando Howell, Jr.
William Richey Hulsizer
Gilbert Napier Huntting
Wesley Middleton Hyde, Jr.
Edmund Scudder Jamieson
Harry McClure Johnson
John Forsyth Joline, Jr.
David Robert Jones
Robert Wallis Kellogg
William McConkey Kerr
George Worth Kilpatrick
Fred Guth Klotz
Arthur Krupp Krause
Robert Kumler Landis
Theodore Emil Larson
Henry Peters Lewman
Leon Artemus Losey
John Janvier Louderbough
George Stroman Love
Arthur Washington Lunn
Charles Gleason Lyman
Andrew Todd McClintock
Charles Arbuthnot MClintock
Newell Wood McIntyre
Alexander Mackie
William Eaton McLean
Renwick Sloane McNiece
James Littell Martin, Jr.
Johnson Martin
William Matthews
Alfred Robberts Miles
McLean Forman Morris
Winfield Tyson Moyer
James Arthur Muller
George Gillespie Evans Neill
Walter Charles Neis
Philander Norton
John Budd Nutt
Harold Thompson Parker
Thomas Clinton Pears, Jr.
Gordon Sohn Rentschler
Harold Charles Richard
Leslie Kirk Richardson
James Forsyth Riggs, Jr.
Charles Edward Roche
George Lloyd Sargent
John Nevin Sayre
Isaac Ripple Schumaker
Donald Scott
Charles Damarin Scudder
Charles Henry Seitz
Henry Newton Shaw
Rome Shirley
Robert Simpson Sidebotham
Alexander Kilgore Sloan
George Sloane
Clyde Fuller Smith
Frederick Newton Smith
John Henry Smith
Lon Champlin Smith
Harry Joseph Sohmer

Judah Colt Spencer
Ingram Macklin Stainback
Leverett Spencer Steele
Robert John Sterritt
William Leonard Thomas
William Max Timmons
Henry Dickson Valentine
Courtland Calvin Van Deusen, Jr.
William Collins Vandewater
Robert Morriss Van Sant
Joseph Raymond Waite
Edward Washburn Walker
George Alex Walker, Jr.
Arthur Bernard Walsh
Waldron Merry Ward
Paul Bernard Waterhouse
Herbert David John Weiser
Hamilton Dey Whitelaw
Isidore Kalisch Wiener
William Walter Wilson
Charles Carroll Wooden
Huntting Case Worth
Gustav Christopher Wuerth
Earle Edgarton Wyckoff

BACHELORS OF LETTERS (*Litt.B.*).....51

Grenville Goodale Abernethy
Fred G Appel
William Dean Bangs
Richard Sanders Barbee
John Alfred Bradley
Lowell Huntington Brown
Fidelio Gillette Chamberlain
Richard Bayly Chapman
Philip Frederick Chew
Frank Harvey Condit
Clement Moffat Cooder
Benjamin Warren Corkran
George Ernest Cranmer
John Lincoln Eisele
George Farrar Green
Edward Chauncey Halsey, Jr.
Marshall Earl Haywood
Carl Fred Hinrichson
Stewart Brooks Hubbell
Coulter Dunham Huyler
Morley Wilmot Jennings
Roy Keith
Ralph Kirkman
Webster Harnish Kline
Charles Townley Larzelere
Chester Coursen Levis
Irvin James McCrary
Charles Francis Miller
Leslie Wardell Newcomb
Roswell Chamberlain Otheman
Norton Prentiss Otis, Jr.
Ralph Woodland Owen
Arthur Boyd Porterfield
Sidney Rheinstein
Daniel Rutgers Robert
John Franklin Rust
William Fredericks Schussler
Monroe Myron Schwarzschild
Halsey Melville Simmons
Clarence Carroll Smith
Donald Dewitt Swisher
John Gregg Thomas
Walter Jamison Waldron
Guy Scott Warren
William Parsons Washburn
Fontaine Carrington Weems
Lloyd Parker Wells
Afton Jay Zahniser
Carl Henry Zeiss
Harold Zeiss

Thomas Jex Preston, Jr., as of the Class of 1906.

BACHELORS OF SCIENCE (*B.S.*).....30

Frederick Augustus Alling
William Metcalf Armstrong
Harry Hamilton Barnes
John Van Doren Bedinger
William Hoke Camp
John Renshaw Carson
Robb Carson
Marshall Gilbert Cochran
Frederick William Cooke, Jr.
Ray Frederick Coyle
Frederick William Cunningham
David Melvin Davis
Jefferson Hayes Davis
Russell Combier Doolittle
John Alexander Galbreath
Ralph Moore George
Jack Miller Goodeno
Frederick Morgan Harris
John Howard Horn
Newton James
Leonard Chester Jones
George Alonzo Keeney, Jr.
Allan Heyward McAlpin
Arthur Burley Menefee
Arthur Herbert Osborn
Charles Penrose
Charles Douglas Porch
Robert James Read
Charles Champ Taliaferro, Jr.
Arthur Prescott Washburn

CIVIL ENGINEERS (*C.E.*).....34

Hubert Victor Alexander
Harry Bennett
Winfred Mudge Brooks
Harry Newton Clark
Richard Bailey Cook
William Earle Cory
Joseph Hasson Creighton
Nathaniel Dain
Walter Henry Daub
Frank Faville Davis
Stephen Roger Davis
Louis John Doyle
Paul Fager
John Edgar Freeman
Berkeley Willard Geyer
Chalmers Blair Gibbens
William Stuart Gordon, Jr.
Alexander Henry, Jr.
William Hill Hulsizer
Cornelius B Kouwenhoven
Robert Ingram Leitch
Harold Chandos Clave Lyons
Fred Culver McCormick
Walter Biddle McIlvain
Edward Gilbert Mathews
Lemuel Osborne
George Mortimer Fitz Randolph
Bird Le Grand Rees
Schuyler Renwick Schaff
William James Schoonmaker
Robert Frederick Scott
Benjamin Franklin Stratton
Louis Ivey Whitlock
George Johnston Willock

HONORS CONFERRED, 1906–1907

ACADEMIC SENIOR HONORMEN

HONORS FOR GENERAL EXCELLENCE

BACHELOR OF ARTS COURSE

FIRST GROUP—*Magna cum laude*

Samuel Dresher Conver
Horace Zweizig Goas
Raleigh Hammond Hansl
Harry McClure Johnson, *Latin Salutatory*
Robert Wallis Kellogg
Robert Kumler Landis
James Arthur Muller, *Valedictory*

SECOND GROUP—*Cum laude*

Walter Loring Barrows
Howard Conklin Baskerville
Albert Daniel Beers
John Paul Burkhart
Hubertis Maurice Cummings
Thomas Jackson Durell
Arthur Boughton Fowler
Harvey S. Haney
Walter Abraham Henricks
Horace Terhune Herrick
William Richey Hulsizer
David Robert Jones
Arthur Krupp Krause
Theodore Emil Larson
Charles Gleason Lyman
Alexander Mackie
Winfield Tyson Moyer
Philander Norton
John Nevin Sayre
Clyde Fuller Smith
Ingram Macklin Stainback
Courtland Calvin Van Deusen, Jr.
Edward Washburn Walker
Waldron Merry Ward
Herbert David John Weiser
Charles Carroll Wooden

BACHELOR OF LETTERS COURSE

SECOND GROUP—*Cum laude*

Frank Harvey Condit
Carl Fred Hinrichson
Fontaine Carrington Weems

SCHOOL OF SCIENCE SENIOR HONORMEN

BACHELOR OF SCIENCE COURSE

FIRST GROUP—*Magna cum laude*

Frederick Morgan Harris

SECOND GROUP—*Cum laude*

John Renshaw Carson
Robb Carson
Leonard Chester Jones
George Alonzo Keeney, Jr.
Arthur Prescott Washburn

CIVIL ENGINEERING COURSE

FIRST GROUP—*Magna cum laude*

John Edgar Freeman
William Hill Hulsizer

SECOND GROUP—*Cum laude*

Hubert Victor Alexander
Harry Bennett
Richard Bailey Cook
Louis Ivey Whitlock

SPECIAL HONORS IN PARTICULAR DEPARTMENTS

PHILOSOPHY. *Highest Honors*—Horace Zweizig Goas. *High Honors*—Walter Abraham Henricks, Robert Wallis Kellogg.

HISTORY, POLITICS, AND ECONOMICS. *Highest Honors*—Raleigh Hammond Hansl, Harry McClure Johnson, Robert Kumler Landis. *High Honors*—Samuel Dresher Conver. *Honors*—Clyde Fuller Smith, Ingram Macklin Stainback, Waldron Merry Ward, Carl Fred Hinrichson.

ENGLISH. *Highest Honors*—James Arthur Muller, Herbert David John Weiser. *High Honors*—Hubertis Maurice Cummings, John Howard Cunningham, George Morgan Duff, James Arthur Muller. *Honors*—Charles Francis Miller, Ralph Woodland Owen.

MATHEMATICS. *Highest Honors*—Frederick Morgan Harris. *High Honors*—Philander Norton. *Honors*—Arthur Krupp Krause.

CHEMISTRY. *Highest Honors*—Horace Terhune Herrick. *High Honors*—William Richey Hulziser.

BIOLOGY. *Honors*—David Melvin Davis.

FELLOWS

(For names of Fellows, see page 365.)

SENIOR PRIZEMEN

Alexander Guthrie McCosh Prize in Philosophy

Horace Zweizig Goas
David Robert Jones

Lynde Debate Prizes

First—Robert Simpson Sidebotham.
Second—Henry Skillman Breckinridge.
Third—James Arthur Muller.

Lynde Debaters

From the American Whig Society	*From the Clisophic Society*
Henry Skillman Breckinridge	Robert Simpson Sidebotham
Alexander Mackie	Robert John Sterritt
James Arthur Muller	Courtland Calvin VanDeusen, Jr.

Baird Prizes

Baird Prize—James Arthur Muller
Oratory—Alexander Mackie
Delivery—Walter Abraham Henricks
Poetry—Frederick Morgan Harris
Disputation, First—David Robert Jones
Disputation, Second—James Arthur Muller

Class of 1859 Prize in English Literature

Thomas Jackson Durell, with honorable mention of Hubertis Maurice Cummings

George Potts Bible Prizes

Robert Simpson Sidebotham
Howard Conklin Baskerville

Lyman H. Atwater Prize in Political Science

Not awarded.

FREDERICK BARNARD WHITE PRIZE IN ARCHITECTURE

Louis Curtiss Cummings

THEODORE CUYLER PRIZE IN ECONOMICS

Raleigh Hammond Hansl, with honorable mention of Clyde Fuller Smith

CLASS OF 1869 PRIZE IN ETHICS

Robert Wallis Kellogg

C. O. JOLINE PRIZE IN AMERICAN POLITICAL HISTORY

Not awarded

NEW YORK HERALD PRIZE

Thomas Jackson Durell

ACADEMIC JUNIOR HONORMEN

FIRST GROUP

David Cushman Coyle
Warren Elsing
Archie Huston Ormond
William Schroeder
Howard Rufus Stiles
Henry Jackson van Dyke, III
Walter W Westervelt
Isaac Trumbull Wood

SECOND GROUP

Elliott Redfield Andrews
Lyman Guy Barton, Jr.
La Fayette Lentz Butler
Merton Kirk Cameron
William Parmly Dunn
Harry William Elliott
Howard Luther Goas
Caleb Smith Green
Joseph Coy Green
Francis Wenger Heagey
Charles Franklin Hosford
Robert Breckinridge Jones
James Lee Kauffman
George Alexander Leonard
Edward Huntington McLean
Montrose Bovard Magoffin
Kenneth Dexter Miller
James Sanford Price
Allison Ellsworth Stuart
Howard Stanley Stuckey
Aaron Snyder Swartz, Jr.
Charles Wills Vernon, Jr.
Charles Henry Weelans
Charles Christian Wolferth

SCHOOL OF SCIENCE JUNIOR HONORMEN

BACHELOR OF SCIENCE COURSE

SECOND GROUP

Garvin Morris Brown
Penn Harvey
Edwin Ray Hulbirt
Robert Gibson Robinson
George Looms, Jr.
William Rowell Neff
Richard Edward Thibaut, Jr.
Arthur Ryan

CIVIL ENGINEERING COURSE

FIRST GROUP

John Havron, Jr.

SECOND GROUP

George Gilbert Cornwell
Le Ray Eldridge Dale
Frank Edward Fell
Edward Charles Fish
Robinson Victor Frost

JUNIOR PRIZEMEN

JUNIOR FIRST HONOR PRIZE

Divided equally between David Cushman Coyle, and Walter W Westervelt

MACLEAN PRIZE

Howard Rufus Stiles

JUNIOR ORATOR MEDALS

First—William Parmly Dunn
Second—Thomas Street Clark
Third—Howard Rufus Stiles
Fourth—James Lee Kauffman

JUNIOR ORATORS

From the Cliosophic Society
Howard Rufus Stiles
William Parmly Dunn

From the American Whig Society
Harry William Elliott
Eugene Ambrose Brennan
Thomas Street Clark
James Lee Kauffman

DICKINSON PRIZE

John Foster Dulles

CLASS OF 1876 MEMORIAL PRIZE FOR DEBATE

Thomas Street Clark

CLASS OF 1870 JUNIOR ENGLISH PRIZES

Old English—William Schroeder, with honorable mention of Henry Jackson van Dyke III
English Literature—Henry Jackson van Dyke III

THOMAS B. WANAMAKER ENGLISH PRIZE

William Parmly Dunn

MARY CUNNINGHAM HUMPHREYS JUNIOR GERMAN PRIZES

First—Charles Franklin Hosford
Second—Archie Huston Ormond, with honorable mention of Charles Christian Wolferth

STINNECKE SCHOLARSHIP

Warren Elsing.

ACADEMIC SOPHOMORE HONORMEN

FIRST GROUP

John G. Buchanan,	Shadyside Academy, Pittsburg, Pa.
John C. Cooper, Jr.,	Lawrenceville School, Lawrenceville, N. J.
Laurence Fenninger,	Central High School, Philadelphia, Pa.
Morton H. Fry,	Franklin and Marshall, Lancaster, Pa.
J. H. Huddleson, Jr.,	Allen Preparatory School, Portland, Ore.
S. B. Murray, Jr.,	Shadyside Academy, Pittsburg, Pa.
Isaac Thomas,	Hill School, Pottstown, Pa.
Ralph L. Thomas,	Bucknell Academy, Lewisburg, Pa.

SECOND GROUP

Douglas D. Ballin,	Columbia Institute, New York City
Lester H. Booker,	Princeton Preparatory School
Albert C. Bruce,	McGuire's University School, Richmond, Va.
Charles H. Burnett,	Horace Mann School, New York City
Frank L. Cunningham	St. Francis Xavier School, New York City

Clarence W. Driver,	Central High School, Philadelphia, Pa.
Spencer Gordon,	Western High School, Washington, D. C.
George Henderson,	Allegheny County Academy, Cumberland, Md.
Richard H. Hill,	Shadyside Academy, Pittsburg, Pa.
Sebastian Hinton,	Western High School, Washington, D. C.
Frank A. Hollowbush,	The Delancey School, Philadelphia, Pa.
Lacy D. Jennings,	Central High School, St. Louis, Mo.
Edwin S. W. Kerr,	Harry Hillman Academy, Wilkes-Barre, Pa.
William La Roe, Jr.,	High School, Perth Amboy, N. J.
N. B. McWilliams,	Dr. Holbrook's School, Ossining, N. Y.
Harold R. Medina,	Dr. Holbrook's School, Ossining, N. Y.
Frank S. Niles,	High School, Syracuse, N. Y.
James C. Peacock,	Central High School, Philadelphia, Pa.
Charles K. Phillips,	Perkiomen Seminary, Pennsburg, Pa.
Spencer W. Phraner,	High School, Bloomfield, N. J.
Leighton P. Scott,	Perkiomen Seminary, Pennsburg, Pa.
William Shand,	Franklin and Marshall, Lancaster, Pa.
Samuel Shellabarger,	University School, Washington, D. C.
Daniel S. Shultz,	Perkiomen Seminary, Pennsburg, Pa.
C. A. Southerland,	Wilmington Friends' School, Wilmington, Del.
William T. Stockton,	Duval High School, Jacksonville, Fla.
Robert Strange,	High School, South Orange, N. J.

SCHOOL OF SCIENCE SOPHOMORE HONORMEN

BACHELOR OF SCIENCE COURSE

First Group

Earle T. Fiddler,	High School, New Brighton, N. Y.

Second Group

W. W. Arnett, Jr.,	St. Paul's School, Concord, N. H.
Edgar W. Beckwith,	High School, East Orange, N. J.
Allan H. Berry,	Pennington Seminary, Pennington, N. J.
Philip D. Wilson,	University High School, Chicago, Ill.

CIVIL ENGINEERING COURSE

Second Group

John L. Chapman,	Baltimore City College
Milton A. Campbell,	High School, St. Joseph, Mo.
Charles H. Shaner,	Hill School, Pottstown, Pa.
Isaac Y. Stauffer,	Perkiomen Seminary, Pennsburg, Pa.

SOPHOMORE PRIZEMEN

CLASS OF 1861 PRIZE IN MATHEMATICS

Richard Harrison Hill

FRANCIS BIDDLE SOPHOMORE ESSAY PRIZE

Isaac Thomas, with honorable mention of James Craig Peacock

CLASS OF 1870 SOPHOMORE ENGLISH PRIZE

Samuel Shallabarger, with honorable mention of Edwin Silas Wells Kerr

B. S. SOPHOMORE LATIN SCHOLARSHIP PRIZE

John Gay
Grant Glenwood Flory (for the year 1905–06)

ORANGE SCHOLARSHIP FOR THE YEAR 1906–07

Edgar William Beckwith

ACADEMIC FRESHMAN HONORMEN

FIRST GROUP

Clinton W. Keyes,	Searles High School, Great Barrington, Mass.
Lyman B. Veeder,	Free Academy, Utica, N. Y.
Philip S. Watters,	High School, Yonkers, N. Y.

SECOND GROUP

George C. Bingley,	High School, Watertown, N. Y.
Paul N. Cadwell,	High School, Atlantic City, N. J.
John L. Carter,	High School, Montclair, N. J.
Francis B. Critchlow,	High School, Salt Lake City, Utah
S. V. Damerel,	High School, Montclair, N. J.
John Fine,	Lawrenceville School, Lawrenceville, N. J.
Frank Fritts,	Mt. Hermon School, Mt. Hermon, Mass.
D. Percy Gilmore,	Allegheny College Preparatory School, Meadville, Pa.
Walter B. Hatfield,	Perkiomen Seminary, Pennsburg, Pa.
Samuel L. Hamilton,	High School, Wilmington, Del.
Jesse Herrmann,	Mt. Hermon School, Mt. Hermon, Mass.
Herbert Jones,	Lawrenceville School, Lawrenceville, N. J.

Philip V. Mattes,	Central High School, Scranton, Pa.
Stanley L. Pope,	State Model School, Trenton, N. J.
Paul K. Rogers,	High School, New Britain, Conn.
Stanley G. Shimer,	High School, Middletown, N. Y.
Charles R. Small,	High School, Harrisburg, Pa.
Daniel M. Smith,	Mercersburg, Academy, Mercersburg, Pa.
Royce R. Spring,	St. James School, Maryland
Philip H. Stitt,	Lawrenceville School, Lawrenceville, N. J.

SCHOOL OF SCIENCE FRESHMAN HONORMEN

BACHELOR OF SCIENCE COURSE

First Group

J. W. Alexander, II, Browning School, New York City

Second Group

Elliott N. Baldwin,	High School, Auburn, N. Y.
William H. Flammer,	Irving School, New York City
D. K. Jackman, Jr.,	Riverview Academy, Poughkeepsie, N. Y.
Walter E. Kirby,	Irving School, New York City
Walter L. Ward,	High School, Newark, N. J.
W. S. Warfield, III,	Hyde Park High School, Chicago, Ill.

CIVIL ENGINEERING COURSE

Second Group

Hugh Kerr Gilmour,	Country School, Baltimore, Md.
Charles Hawley,	Central High School, Detroit, Mich.
Arthur F. Hinrichsen,	High School, Newark, N. J.
James H. Tregloan,	Park County Free High School, Livingston, Mont.

FRESHMAN PRIZEMAN

Class of 1883 Prize for English in the School of Science

Robert Hall Woods, with honorable mention of Arthur Feick Hinrichsen

Orange Scholarship for the Year 1907–08

Edward Stoddard Castle, 1911

PART X

ALUMNI ASSOCIATIONS, LISTS OF STUDENTS, DIRECTORY, AND INDEX

ALUMNI ASSOCIATIONS

ALUMNI ASSOCIATION OF NASSAU HALL.—Founded 1826.

Chairman, Hon. George Gray, LL.D., '59.
Secretary,

The Alumni Meeting is held in the Gymnasium on Tuesday of Commencement Week at 1.30 P.M., when the Alumni Dinner is served.

WESTERN ASSOCIATION OF PRINCETON CLUBS.

President, William B. McIlvaine, Esq., '85, Chicago, Ill.
Secretary, William Steinmeyer, Esq, 1902, 1264 Frick Building, Pittsburg, Pa.

PRINCETON CLUB OF NEW YORK.—Founded 1866.
119–121 East 21st St.

President, Parker D. Handy, Esq., '79.
Secretary, W. F. McCombs, Jr., Esq., '98, 96 Broadway.

PRINCETON CLUB OF PHILADELPHIA.—Chartered 1898.

Honorary President, Hon. Craig Biddle, '41.
President, Alexander Van Rensselaer, Esq., '71.
Secretary, Edmund B. Seymour, Jr., Esq., '98, 911 Stephen Girard Building.

PRINCETON ALUMNI ASSOCIATION OF THE DISTRICT OF COLUMBIA AND SOUTHERN STATES.—Founded 1872.

President, Henry E. Davis, Esq., '76.
Secretary, Oliver Metzerott, Esq., '98, 1110 F St., N. W., Washington, D. C.

PRINCETON CLUB OF WESTERN PENNSYLVANIA.—Founded 1875.

President, Robert D. Totten, Esq., '86.
Secretary, William A. Steinmeyer, Esq., 1902,
1264 Frick Building Annex, Pittsburg, Pa.

PRINCETON ALUMNI ASSOCIATION OF CINCINNATI.—Founded 1875.

President, James C. Ernst, '73.
Secretary and Treasurer, Walton C. Hill, '97, Union Trust Building.

PRINCETON CLUB OF CHICAGO.—Founded 1876.

President, Alvin C. McCord, Esq, '89.
Secretary and Treasurer, Ralph H. Poole, Esq., 1900,
415 Royal Insurance Building.

PRINCETON CLUB OF ST. LOUIS.—Founded 1876.

President, Edward F. Goltra, Esq., '87.
Secretary, Erastus Wells, Esq., '03, Bank of Commerce Building.

PRINCETON ALUMNI ASSOCIATION OF NEBRASKA.—Founded 1884.

President, Lowrie Childs, Esq., '91.
Secretary, William T. Laing, Esq., '99, 1412 Farnam St., Omaha.

PRINCETON ALUMNI ASSOCIATION OF LOUISVILLE.—Founded 1884.

President, John G. Cecil, Esq., '76.
Vice-President, John W. Barr, Jr., Esq., '85.
Secretary, Harry A. Strater, Esq., 1903, 1303 Third Ave.

CENTRAL PENNSYLVANIA ALUMNI ASSOCIATION OF PRINCETON UNIVERSITY.—Founded 1885.

President, Charles H. Bergner, Esq., '74.
Secretary, W. H. Musser, Esq., '96, 215 N. Second St., Harrisburg.

PRINCETON ALUMNI ASSOCIATION OF MARYLAND.—Founded 1885.

President, Hon. George A. Pearre, '80.
Secretary, A. Hunter Boyd, Jr., Esq., 1900, B. and O. Law Department, Baltimore.

PRINCETON CLUB OF TRENTON.—Founded 1886.

President, Hon. Frank S. Katzenbach, Jr., '89.
Secretary, W. M. Dickinson, Esq., '97, 135 East State St.

PRINCETON ALUMNI ASSOCIATION OF THE NORTHWEST.
Founded 1886.

President, A. E. Clerihew, Esq, '85.
Secretary-Treasurer, G. A. Wharton, Esq., 1902, care Tibbs Hutchings & Co., St. Paul, Minn.

PRINCETON ALUMNI ASSOCIATION OF NORTHEASTERN PENNSYLVANIA.—Founded 1886.

President, C. O. Dersheimer, Esq., '74.
Secretary, Frank I. Linen, Esq., 1901, Scranton, Pa.
Ass't Secretary, Paul Bedford, Esq., '97, Wilkes-Barre, Pa.

PRINCETON ALUMNI ASSOCIATION OF NORTHERN OHIO.
Founded 1887.

President, H. S. Johnson, Esq., '78.
Secretary, O. W. Upson, Esq., '95, 1310 11th St., Cleveland.

PRINCETON CLUB OF NEWARK.—Founded 1894.

President, Hon. John R. Hardin, '80.
Secretary, Stuart A. Young, Esq., 1902, 1078 Broad St.

PRINCETON CLUB OF ALBANY AND VICINITY.—Founded 1889.

President, Rev. Charles A. Richmond, '83.
Secretary, Andrew Thompson, Esq., '99, 53 Lake Ave., Albany.

PRINCETON ALUMNI ASSOCIATION OF DELAWARE.—Founded 1892.

President, Hon. William C. Spruance, '52.
Secretary, W. H. Porter, Esq., '75, Equitable Building, Wilmington.

PRINCETON ALUMNI ASSOCIATION OF CENTRAL NEW YORK.
Founded 1894.

President, Professor John Van Duyn, M.D., '62.
Secretary, Wilbur Van Duyn, Esq., 1904, 20 White Memorial Building, Syracuse.

PRINCETON ALUMNI ASSOCIATION OF WESTERN NEW YORK.
Founded 1894.

President, William B. Lee, Esq., '79.
Secretary, Rev. G. B. F. Hallock, D.D., '82, 10 Livingston Park, Rochester.

PRINCETON CLUB OF THE SOUTHWEST.—Founded 1895.

President, John H. Thacher, Esq., '95.
Secretary, John M. Townley, Esq., '97, Second and Walnut Sts., Kansas City, Mo.

PRINCETON CLUB OF UNION COUNTY, NEW JERSEY.
Founded 1896.

President, Joseph M. Shellabarger, Esq., '92.
Secretary-Treasurer, Owen H. Fleming, Esq., 1904, Plainfield, N. J.

ROCKY MOUNTAIN PRINCETON CLUB.—Founded 1897.

President, James H. Pershing, Esq., '88.
Secretary, Howard Bonsall, Esq., Cooper Building, Denver, Colo.

PRINCETON ALUMNI ASSOCIATION OF NEW ENGLAND.
Founded 1897.

President, Rev. Edward Huntting Rudd, '83.
Secretary, Hugh Miller, Esq., 1901, 53 State St., Boston.

PRINCETON ALUMNI ASSOCIATION OF TEXAS.—Founded 1897.

President, William B. Seeley, Ph.D., '79.
Secretary-Treasurer, Charles C. Cresson, Jr., Esq., '95, San Antonio, Texas.

PRINCETON ALUMNI ASSOCIATION OF ERIE.—Founded 1897.

President, William Spencer, Esq., '70.
Secretary, Frank H. Payne, Esq., '91, care Metric Metal Co., Erie.

PRINCETON ALUMNI ASSOCIATION OF INDIANA.—Founded 1898.

President, George T. Porter, Esq., '69.
Secretary, Blythe Hendricks, Esq., 1902, Park Board Office, Indianapolis.

PRINCETON ALUMNI ASSOCIATION OF SOUTH AFRICA.
Founded 1898.

President, E. Verne Richardson, '88
Secretary, Rev. Clinton T. Wood, '92, Mission Institute, Wellington, Cape of Good Hope.

PRINCETON CLUB OF CEDAR RAPIDS, IOWA.—Founded 1901.

President, Rev. E. R. Burkhalter, '62.
Secretary and Treasurer, J. M. Ely, Esq., 1906.

PRINCETON CLUB OF HAWAII.—Founded 1901.

President, John Waterhouse, '96.
Secretary, Rev. Edward B. Turner, '96, 778 King St., Honolulu.

PRINCETON ALUMNI ASSOCIATION OF SYRIA.—Founded 1902.

President, Franklin T. Moore, M. D., '91.
Secretary, George B. Stewart, Jr., Esq., 1906, Syrian Protestant College, Beirût, Syria.

PRINCETON ALUMNI ASSOCIATION OF GERMANY.—Founded 1902.

Home Secretary, Prof. George M. Priest, '94, Princeton.

PRINCETON CLUB OF PARIS.—Founded 1903.

President, Persifor F. Gibson, Esq., '85.
Secretary, Evans T. Richardson, Esq., '88, 9 rue Scribe

PRINCETON ALUMNI ASSOCIATION OF THE ORANGES.
Founded 1903.

President, Francis Speir, Jr., Esq., '77.
Secretary, Albridge C. Smith, Jr., Esq., 1903, 203 Lincoln Ave., Orange, N. J.

PRINCETON ALUMNI ASSOCIATION OF TENNESSEE.—Founded 1905.

President, Hon. Jacob S. Galloway, '58
Secretary and Treasurer, Walter H. Watkins, Esq., '00, Chattanooga, Tenn.

PRINCETON ALUMNI ASSOCIATION OF TOLEDO.—Founded 1905.

Chairman, Hon. Orville S. Brumback, '77.
Secretary, Walter C. Bond, Esq., 1905, Toledo, Ohio.

PRINCETON CLUB OF PUGET SOUND.—Founded 1905.

Chairman, Frank Howard Lord, Esq., '79.
Secretary, Chester F. Lee, Esq., '84, Seattle, Washington.

STUDENTS OF THE UNIVERSITY

Students in the Graduate School

Fellows

Norton, Philander, Albion, N. Y., 4 S W B
A.B., Princeton University, 1907.
Class of 1860 Fellow in Experimental Science.

Brown, Fay Cluff, Lyons, Ind., 19 Bank St.
A.B., Indiana University, 1904.
A.M., University of Illinois, 1905.
Class of 1860 Fellow in Experimental Science.

Krause, Arthur Krupp, Lansdale, Pa., 10 N R
A.B., Princeton University, 1907.
J. S. K. Fellow in Mathematics

Campbell, Daniel Randles, Johnstown, N. Y., 43 U
A.B., Hamilton College, 1902.
A.M., Hamilton College, 1905.
Class of 1877 Fellow in Biology

Trumbower, Henry Roscoe, Passer, Pa., Merwick
A.B., Lehigh University, 1903.
South East Club Fellow in Social Science

Ward, Clarence, Thompson, Conn., Paris, France
A.B., Princeton University, 1905.
A.M., Princeton University, 1906.
University Fellow in Archæology

Spohn, George Samuel, Krumsville, Pa., 9 N Ed
A.B., Princeton University, 1906.
A.M., Princeton University, 1907.
Charles Scribner Fellow in English Literature.

Mierow, Charles Christopher, Lakewood, N. J., Merwick
A.B., Princeton University, 1905.
A.M., Princeton University, 1906.
John Harding Page Fellow in Classics

Coulter, Calvin Brewster, Chicago, Ill., Merwick
A.B., Williams College, 1907.
Francis Hinton Maule Fellow in Biology.

Kennedy, Charles William, New Brighton, N.Y., Munich, Germany
A.B., Columbia University, 1902.
Ph.D., Princeton University, 1906.
Porter Ogden Jacobus Fellow in English

Bonner, Walter Daniel, Columbus, Neb., 14 Park St.
B.S., Nebraska Wesleyan University, 1906
University Fellow in Chemistry.

Goas, Horace Zweizig, Schuylkill Haven, Pa., 14 N M R
A.B., Princeton University, 1097.
Special Fellow in Philosophy

Spence, Bartholomew John, Chicago, Ill., 19 Bank St.
B.S., Northwestern University, 1905.
Teaching Fellow in Physics

Barrows, Walter Loring, Greenwich, Conn., 14 Park St.
A.B., Princeton University, 1907.
Teaching Fellow in Physics

Quillian, Charles Fletcher, Los Angeles, Cal., 10 N Ed
Ph.B., Emory College, 1903.
A.M., Princeton University, 1907.
Honorary Fellow in Social Science

Jones, Charles Hodge, Erie, Pa., Halle, Germany
A.B., Princeton University, 1900.
Special Fellow in Classics

Haney, Harvey Sigafoos, Richland Centre, Pa., 10 S Ed
A.B., Princeton University, 1907.
Boudinot Fellow in History

Weems, Fontaine Carrington, Houston, Texas, Merwick
Litt.B., Princeton University, 1907.
Boudinot Fellow in Modern Languages

Kellogg, Robert Wallis, Princeton, N. J., A, A S
A.B., Princeton University, 1907.
Chancellor Green Fellow in Mental Science.

Cummings, Hubertis Maurice, Harrisburg, Pa., 29 N Ed
A.B., Princeton University, 1907.
Special Fellow in English Literature

Graduate Students

Allen, Frank Benjamin, Murphysboro, Ill., 11 A S
A. B., Park College, 1905.

Amos, William Harvey, Crookston, Minn., 11 Alexander St.
A. B., Macalester College, 1907.

Angus, Harry Baremore, Elizabeth, N. J., 309 H S
B. S., Rutgers College, 1905.

Baldinger, Gustavus Walter, Allegheny, Pa., 43 B S
A.B., Westminster College, 1903.

Barbee, Richard Sanders, Princeton, N. J.
Litt. B., Princeton University, 1907.

Baskerville, Charles Edward, New London, Minn., 205 H S
A.B., Bellevue College, 1906.

Baxter, Edgeworth Bird, Augusta, Ga., 168 Nassau St.
A.B., Princeton University, 1890.

Braskamp, Otto, Alton, Ia., 7 B S
A.B., Grinnell College, 1907.

Bready, George Stuart, Germantown, Pa., 37 A S
A.B., Princeton University, 1907.

Broy, Charles Clinton, Sperryville, Va., 19 Madison St.
A.B., Roanoke College, 1906.
A.M., Roanoke College, 1907.

Bunn, Benjamin Franklin, Parkersburg, Pa., 14 Park St.
A.B, Princeton University, 1907.

Calverley, Edwin Elliott, Philadelphia, Pa., 44 A S
A.B., Princeton University, 1906.

Chase, John Wallace, Hanover, Ill., 38 B S
A.B., Coe College, 1907.

Close, Gilbert Fairchild, Princeton, N. J., 43 '79 Hall
A.B., Princeton University, 1903.

Connor, Francis Albert, Bradford, Mass., 19 Madison St.
A.B., Roanoke College, 1907.

Conwell, George MacFeely, Vineland, N. J., 9 S M R
A.B., Princeton University, 1905.
A.M., Princeton University, 1906.

Cook, Charles Ferguson, Utica, N. Y., Merwick
C.E., Cornell University, 1906.

Corum, Jesse Maxwell, Jr., Paris, Tenn., 23 B S
A.B., Vanderbilt University, 1906.

Davis, Claude King, Wichita, Kan., 406 H S
A.B., Fairmount College, 1907.

Diehl, John Maclay, Cashtown, Pa., 6 A S
A.B., Pennsylvania College, 1904.

DuBois, Henry Pastor, Hallstead, Pa., Merwick
M.E., Cornell University, 1907.

Duff, George Morgan, Carnegie, Pa., Murray-Dodge Hall
A.B., Princeton, University 1907.

Farber, Benjamin Franklin, Frankfort, Ind., 309 H S
A.B., Hanover College, 1905.

Ferry, Asa John Harris, Warroad, Minn., 24 A S
A.B., Macalester College, 1905.

Field, Lloyd Baker, Atlanta, Ga., 317 H S
A.B., Southwestern Presbyterian University, 1905.

Fowler, Archibald Kennedy, Jr., Caledonia, N. Y., Tower Club
A.B., Princeton University, 1906.

Fulton, Marcus Scott, Dungiven, Ireland, 27 B S
C.A., Queens College, Belfast, 1903.
Trinity College, Dublin, 1905.

Garrett, Willis Otis, Norfolk, Va., 57 B S
A.B., Geneva College, 1905.

Garrison, Ralph Alden, Philadelphia, Pa., 217 H S
A.B., Princeton University, 1905.

Gaunt, Harold Garfield, Vassar, Mich., 409 H S
A.B., Alma College, 1906.

Gorecki, Thaddeus, Philadelphia, Pa., 1 S D
A.B., Princeton University, 1907.

Halsey, Jesse, Southampton, L. I., 33 A S

Hansel, Ernest, Orange, N. J., 46 A S
Newark Theological School, 1905.

Harbinson, Stewart Clark, Belfast, Ireland, 32 B S
A.B., Royal University of Ireland, 1907.

Hardin, Edward King, Clover, S. C., 211 H S
A. B., Wofford College, 1904.

Harris, Henry, Newark, N. J., 307 H S
A.B., Princeton University, 1905.

Hayman, Herbert Harry, Caldwell, Idaho, 115 H S
A.B., University of Wooster, 1906.

Heermance, Radcliffe, Poughkeepsie, N. Y., Lawrenceville, N. J.
A.B., Williams College, 1904.
A.M., Williams College, 1906.

Hemphill, Wesley Lynn, Riverton, N. J., 42 A S
A.B., University of Pennsylvania, 1904.
A.M., University of Pennsylvania, 1905.

Hiromasa, Kosuké, Sabagun, Yamaguchiken, Japan, 10 S Ed

Hoffman, Clarence Sidney, Gratz, Pa., 21 B S
A.B., Albright College, 1907.

Holdcroft, James Gordon, Brooklyn, N. Y., 26 A S
A.B., Park College, 1903.

Hunter, Stuart McKelven, Omaha, Neb., 67 B S
A.B., Bellevue College, 1905.

Hutchison, Thomas Johnston, Rock Hill, S. C., 305 H S
A.B., Davidson College, 1904.

Ilsley, LeRoy Christian, Wyoming, Iowa, 310 H S
B.S., Coe College, 1906.

Joseph Lloyd Annesley, Colombo, Ceylon, 15 A S
A.B., Royal College, Ceylon, 1898.

Keller, Claudius Argyle, Sparta, Ill., 207 H S
Ph.B., Heidelberg, University, 1906.

Kleven, Nils, Minneota, Minn., 39 Wiggins St.
A.B., St. Olaf College, 1901.

Kullmar, Frederick Adam, Jamesburg, N. J., 35 B S
A.B., Rutgers College, 1907.

Lampe, William Edmund, Sendai, Japan, 117 H S
A.B., Princeton University, 1896.
A.M., Princeton University, 1898.

Landes, Philip Sheeder, Curitybe, Parana, Brazil, S. A., 15 B S
A.B., University of Wooster, 1907.

Lee, Theron, Carbondale Pa., 34 A S
A.B., Lafayette College, 1904.
A.M., Princeton University, 1906.

Lewis, John Wythe, Buffalo, N. Y., 31 Alexander St.
A.B., New York University, 1906.

Louderbough, John Janvier, Salem, N. J., 8 N R
A.B., Princeton University, 1907.

Lusk, William Brown, New York City, 7 B S
A.B., Royal University of Ireland, 1907.

Lynn, William McGreggor, Tarkio, Mo., 54 B S
B.S., Tarkio College, 1907.

MacDonald, Kenneth Piercy, Lincoln, Neb., 200 H S
A.B., University of Nebraska, 1904.

Mackie, Alexander, Philadelphia, Pa., 201 H S
A.B., Princeton University, 1907.

Midkiff, Harry Preston, Elkport, Iowa, 29 B S
A.B., Lenox College, 1906.

Mitchell, Howard Hawks, Springfield, Mass., 25 S Ed
Ph.B., Marietta College, 1906.

Morse, Anson Ely, Amherst, Mass., 76 Alexander St.
A.B., Amherst College, 1902.
Ph.D., Princeton University, 1907.

Mulholland, Robert Howard, Beaver Falls, Pa., 21 A S
A.B., Geneva College, 1903.

Muller, Hugo Arthur, Haddonfield, N. J., 39 B S
A.B., University of Pennsylvania, 1907.

Niedermeyer, Frederick David, Decatur, Ill., 23 A S
A.B., University of Illinois, 1904.

Norris, Percival Chandler, Wilmington, Del., 17 N Ed
A.B., Princeton University, 1902.

O'Connor, John Bartholomew, Indianapolis, Ind., 20 N Ed
A.B., Rochester University, 1897.

Orr, John, Decatur, Mich. 69 B S
A.B., Wooster University, 1907.

Pardoe, William Dolton, Princeton, N. J., 15 Chambers St.
B.S., Princeton University, 1905.

Power, Robert John, Banbridge, Ireland, 27 B S
C.A., Queen's College, Belfast, 1904.
Trinity College, Dublin, 1905.

Rice, Claton Silas, Bancroft, Neb., 67 B S
B.S., Bellevue College, 1905.

Rowan, Thomas, Ballyroney, Ireland, 410 H S
Columbia University and Princeton University.

Schwenke, Clarence Henry, Logan, Ohio, 31 A S
Ph.B., Wooster University, 1903.

Sholl, William Nace, Birmingham, Ala., 304 H S
Southwestern University, Tenn.

Simpson, Randolph Stewart, Washington, D. C., Merwick
A.B., Princeton University, 1906.

Smalley, Royal Jesse, La Porte City, Iowa, 417 H S
A.B., Cornell College, 1905.

Smith, Herbert Booth, Richmond, Ky., 25 A S
A.B., Washington University, 1905.

Steffens, Jacob Julius, Zeeland, Mich., 8 A S
A.B., Hope College, 1904.

Stevens, Rolland Drew, Princeton, N. J., 68 University Pl.
A.B., Princeton University, 1904.
A.M., Princeton University, 1907.

Taylor, James Clark, Beaver Falls, Pa., 403 H S
A.B., Princeton University, 1905.

Tevis, Charles Chrisman, Los Angeles, Cal., 215 H S
A.B., Westminster College, 1906.

Thomas, John Gregg, Baltimore, Md., 3 L P
Litt.B., Princeton University, 1907.

Tuttle, Frank Harrison, Summit, N. J., 11 Park St.
B.S., Princeton University, 1905.
A.M., Princeton University, 1906.

Waggoner, Ralph Alden, Stamford, Neb., 63 B S
A.B., Park College, 1907.

Waite, Joseph Raymond, Warriors Mark, Pa., 415 H S
A.B., Princeton University, 1907.

Wakimoto, Motojiro, Fukagawaku, Tokio, Japan, 18 S Ed
A.B., Waseda University, 1904.

Watanabe, Isamu Lebbi, Saga, Hijen, Japan, 401 H S
Monoyama High English College, 1897.
B.D., Princeton Theological Seminary, 1907.

Weld, William Ernest, Marysville, Ohio, 31 A S
A.B., Wooster University, 1903.

Whitmarsh, David Carothers, Savannah, Ohio, 32 A S
A.B., Washington and Jefferson College, 1906.

Williamson, DeWitt Clinton, Pawnee City, Neb., 46 B S
A.B., Bellevue College, 1905.

Wilson, Matthew Hale, Scribner, Neb., 46 B S
B.S., Bellevue College, 1904.
McCormick Seminary, 1905.
Omaha Seminary, 1907.

Wright, Horace Kepler, Mt. Crawford, Va., 37 B S
A.B., Bridgewater College, 1905.

Yano, Isaburo, Imabari, Iyo, Japan, 107 H S
Tohoku Gakuin College, 1898.
B.D., Princeton Theological Seminary, 1907.

Yatsu, Zenjiro, Sendai, Japan, 111 H S
A.B., North Japan College, 1899.
North Japan Seminary, 1902.

FELLOWS. 20
GRADUATE STUDENTS. 91

STUDENTS IN THE GRADUATE SCHOOL. . . 111

Students in the Academic Department

Academic Senior Class

Candidates for the A.B. Degree

‡Alexander, Julian Power,	Jackson, Miss.,	9 S W B
Andrews, Elliot Redfield,	Berwyn, Ill.,	10 E B
Austin, William Mandeville,	Toms River, N. J.,	7 S M R
Baker, Elmer Wayne,	Jamaica, N. Y.,	3 W M W
Banning, Ephraim, Jr.,	Chicago, Ill.,	7 M D
Barrett, Hugh Campbell,	Newark, N. J.,	181 L
Barton, Lyman Guy, Jr.,	Willsboro, N. Y.,	3 M D
*Beall, Louis Erwin, Jr.,	Uniontown, Pa.,	111 L
Bell, John Arner, Jr.,	Carnegie, Pa.,	A, B
Berghaus, Charles E,	Harrisburg, Pa.,	C, E B
Boynton, Frank Lane,	New York City,	11 S D
Braddock, William Hallock,	Jersey City, N. J.,	23 M D
Brennan, Eugene Ambrose,	Edwardsville, Pa.,	9 E M W
Brook, Charles,	Princeton, N. J.,	Ewing St.
Brown, Ralph Manning,	Elizabeth, N. J.,	41 '79 H
Bruce, John Marshall Hills,	Mt. Washington, Md.,	21 '79 H
Butler, LaFayette Lentz,	Park Place, Pa.,	168 Nassau St.
Cameron, Merton Kirk,	North East, Md.,	11 S M R
Carey, Charles Donald,	Stroudsburg, Pa.,	20 S Ed
Catlin, Randolph,	Brooklyn, N. Y.,	11 E B
Chalmers, Alan Reid,	New York City,	1 M D
Christie, Robert Dobbie,	Allegheny, Pa.,	14 M D
Clark, Thomas Street,	Cortland, N. Y.,	1 S M R
Coons, John Constine,	Wilkes-Barre, Pa.,	3 S R
Coyle, David Cushman,	North Adams, Mass.,	4 S R
Cummings, Louis Curtiss,	Brooklyn, N. Y.,	21 P
Davey, William Oscar,	East Orange, N. J.,	51 P
Donovan, Hamilton James,	Detroit, Mich.,	5 N W
Dulles, John Foster,	Auburn, N. Y.,	163 L
Dunham, Calvin Thompson,	Basking Ridge, N. J.,	4 S W

‡ Candidate for degree in February, 1908.

* Died November 28, 1907.

Dunn, William Parmly,	Philadelphia, Pa.,	1 S W
Durstine, Roy Sarles,	Brooklyn, N. Y.,	33 P
Elliott, Harry William,	Murfreesboro, Tenn.,	2 S D
Elsing, Warren,	Lakewood, N. J.,	6 M D
Elwood, Vincent Nathan,	Downsville, N. Y.,	2 W M W
Farley, John Gallagher, Jr.,	Anniston, Ala.,	4 N R
Finney, William Parker, Jr.,	Moorestown, N. J.,	9 N M R
*Foster, William Earley,	Atlantic Highlands, N.J.,	1 E W
Fowler, Herbert Eugene,	Mansfield, Pa.,	53 Univ. Pl.
French, Charles Howard,	Pittsfield, Mass.,	13 S W
Fruit, Fred Thomas,	Sharon, Pa.,	41 P
Gill, William Augustus,	Brooklyn, N. Y.,	12 S E B
*Gilmour, Howard Coombs	Newark, N. J.,	181 L
Gilson, Samuel Loren,	Erie, Pa.,	4 S R
*Glass, John Purnell,	Montgomery, Ala.,	66 L
Glenn, Robert Crispin,	Berwick, Pa.,	1 S W
Goas, Howard Luther,	Schuylkill Haven, Pa.,	14 N M R
Grau, Walter Henry Ferdinand,	Louisville, Ky.,	35 P
Green, Caleb Smith,	Trenton, N. J.,	3 E W
Green, Joseph Coy,	Cincinnati, O.,	10 E W
Greene, Clinton Jennings,	Havana, Cuba,	63 B
Griscom, William Morris, Jr.,	Bryn Mawr, Pa.,	5 B
Haley, Ralph Jandt,	Sioux City, Ia.,	10 W W
‡Halsted, Douglas,	New York City,	24 '79 H
Harlan, Edwin Hanson Webster,	Bel Air, Md.,	51 '79 H
Harrison, John Ward,	Fort Worth, Tex.,	2 S D
Haulenbeek, James White,	Walton, N. Y.,	95 B
Hawes, Edward Prince,	Pittsburg, Pa.,	14 M D
Heagey, Francis Wenger,	Cochranville, Pa.,	9 W M W
Hill, Rodney, Jr.,	Britt, Ia.,	9 W W
Hosford, Charles Franklin, Jr.,	Butler, Pa.,	2 E W
Jackson, Job H, Jr.,	Wilmington, Del.,	24 L
Johnson, Wade McCall,	Ogden, Utah,	9 W M W
Jones, Henry Lester,	East Orange, N. J.,	51 P
Jones, Robert Breckinridge,	Louisville, Ky.,	2 S W
Joy, Henry Emil,	Princeton, N. J.,	Morven Pl.
Kalisch, Isidore,	Newark, N. J.,	3 S R
Kauffman, James Lee,	Columbia, Pa.,	A, B
Keepers. George Alfred,	Beallsville, O.,	6 W B

‡ Candidate for degree in February, 1908.
* Candidate for degree in February, 1909.

‡Keepers, William Lloyd,	Newark, N. J.,	53 L
Kerr, James Thomas,	Erie, Pa.,	16 S M R
Kimball, Rollin Hibbard, Jr.,	Garfield, Ga.,	Harrison Road
Knott, Lewis Atwood,	Louisville, Ky.,	35 P
Krieble, Isaac Reiff,	Norristown, Pa.,	2 S M R
Lanning, Kenneth Hemenway,	Trenton, N. J.,	9 S E B
Leonard, George Alexander,	Syracuse, N. Y.,	3 U P
‡Lithgow, Leslie Gordon,	New York City,	24 '79 H
Lothrop, George Van Ness, 2d,	Detroit, Mich.,	5 N W
McCarter, George William Childs,	Newark, N. J.,	54 '79 H
McClintock, Gilbert Stuart,	Wilkes-Barre, Pa.,	21 '79 H
McLean, Edward Huntington,	San Juan, Porto Rico,	14 S W
McNair, Robert Shankland,	Belleville, N. J.,	17 S Ed
Magoffin, Montrose Bovard,	Mercer, Pa.,	10 S W
Marshall, Trenholm Hatch,	New York City,	A, B
*Mecabe, Ernest Wilson,	Orange, N. J.,	41 P
Mettler, Thomas Holcombe,	East Millstone, N. J.,	94 B
Miers, Edward Derr,	Trenton, N. J.,	5 W B
Miller, Everard Patterson, Jr.,	Newark, N. J.,	10 S W
Miller, Kenneth Dexter,	New York City,	12 S E B
‡Murray, Clapham,	Baltimore, Md.,	8 N M R
Myers, John Platt,	Plattsburg, N. Y.,	7 W M W
Ormond, Archie Huston,	Princeton, N. J.,	276 Nassau St.
*Pfeiffer, Timothy Newell,	Merchantville, N. J.,	12 S E B
Phillips, Walter Jenkins,	Scranton, Pa.,	94 P
Pomeroy, William McLellan,	Chambersburg, Pa.,	34 '79 H
Pullen, Ernest Clifford,	Robbinsville, N. J.,	92 Stockton St.
Pyle, David Hunter McAlpin,	New York City,	9 L P
Pyne, Moses Taylor, Jr.,	New York City,	9 L P
Robbins, Clayton Augustus,	Lakewood, N. J.,	8 S R
Rose, Alfred Leopold,	New York City,	38 L
Rouse, Louis Joseph,	Blue Anchor, N. J.,	12 N D
Schroeder, William,	New York City,	40 S Ed
Schultz, Chester Kriebel,	Barto, Pa.,	9 S R
Serfas, Theodore Adolphus,	Effort, Pa.,	6 W B
*Sewall, Campbell,	Houston, Texas,	2 E B
Simons, Leslie Hill,	Ariel, Pa.,	1 E M W
Smith, Lloyd Weir,	Pittsburg, Pa.,	7 S R
Smith, Thomas Leaming,	Philadelphia, Pa.,	5 N R

‡ Candidate for degree in February, 1908.
* Candidate for degree in February, 1909.

Solinger, Walter Bernard,	Brooklyn, N. Y.,	4 Nassau Inn
Spencer, Alanson Hosmer,	Gloversville, N. Y.,	41 L
Stiles, Howard Rufus,	Flushing, N. Y.,	4 W M W
Stuart, Allison Ellsworth,	Lafayette, Ind.,	7 E B
Stuckey, Howard Stanley,	Buffalo, N. Y.,	9 E M W
Swartz, Aaron Snyder, Jr.,	Norristown, Pa.,	41 L
Taliaferro, Thomas Sinclair,	Houston, Tex.,	94 P
Taylor, Howard Fisher,	Brownsville, Pa.,	8 W B
Taylor, Porter Morell,	McKeesport, Pa.,	11 S D
Temple, William Carson,	North Adams, Mass.,	10 N R
Thompson, Walter Neal,	West Pittston, Pa.,	1 E M W
van Dyke, Henry Jackson, III,	Princeton, N. J.,	33 P
Vernon, Charles Wills, Jr.,	Morristown, N. J.,	3 W M W
Voigt, Ernest Rudolf,	New York City,	13 U P
Warner, Daniel List,	Baltimore, Md.,	7 U
Watkins, James Morgan,	Chattanooga, Tenn.,	42 '79 H
Weelans, Charles Henry,	Trenton, N. J.,	9 S E B
Westervelt, Walter W,	Beemerville, N. J.,	14 S W
Wheeler, Nelson Platt, Jr.,	Endeavor, Pa.,	94 P
Williams, Charles,	Nashua, N. H.,	11 W W
*Winans, James Macdonald,	Princeton, N. J.,	21 Morven St.
Wolferth, Charles Christian,	Clarksboro, N. J.,	4 W M W
Wood, Isaac Trumbull,	Princeton, N. J.,	20 Bayard Lane
Wood, Percy Clifford,	Pittsburg, Pa.,	13 W W

CANDIDATES FOR THE LITT. B. DEGREE

Atlee, John Cox,	Fort Madison, Ia.,	24 B
Blatchford, William Wallack, Jr.,	Atlantic City, N. J.,	37 Wiggins St.
Brown, Garvin Morris,	Indianapolis, Ind.,	85 P
‡Carton, Laurence Roberts,	Chicago, Ill.,	13 '79 H
Clothier, Robert Clarkson,	Bryn Mawr, Pa.,	185 L
Colvin, William Henry,	Pittsburg, Pa.,	61 B
Connors, William Bernard,	Stoneham, Mass.,	61 B
*Corbin, Horace Kellogg,	Elizabeth, N. J.,	43 L
‡Crary, Delos,	Hancock, N. Y.,	4 M D
Crawford, Sidney Lawrence,	Merion, Pa.,	14 B
Drayton, Emlen Meigs,	Philadelphia, Pa.,	6 U P
Failey, Robert Burnett,	Indianapolis, Ind.,	85 P

‡ Candidate for degree in February, 1908.
* Candidate for degree in February, 1909.

*Fender, Robert Chesley,	Chester, Pa.,	32 L
Flory, Grant Glenwood,	Dayton, O.,	14 B
*Fluhart, Theodore Lamar,	Dayton, O.,	14 B
Forsyth, Robert Wright, Jr.,	Richmond Va.,	5 N R
Gallaher, Samuel Miller,	Charlestown, W. Va.,	51 '79 H
George, Louis Brainard,	Lynn, Mass.,	3 L P
Graham, Geoffrey,	Montclair, N. J.,	42 '79 H
Grandin, Guy Merkle,	Tidioute, Pa.,	11 E B
Gregory, Frank Albert,	Indianapolis, Ind.,	43 L
Halliday, Earnest Raymond,	Columbus, O.,	13 B
Hamill, Chalmers Martin,	Terre Haute, Ind.,	5 S R
Houston, William Seward,	Pittsburg, Pa.,	5 E M W
Johnson, Harding, Jr.,	Brooklyn, N. Y.,	6 N R
Jones, Howard Chapin,	Norwich, N. Y.,	9 W M W
Jones, Raymond Edgar,	Belvidere, N. J.,	2 W M W
Kain, William Frederick,	Dallas, Tex.,	35 L
Kelly, John Hedges,	Sioux City, Ia.,	134 L
Lambert, Gerard Barnes,	Saint Louis, Mo.,	90 Nassau St.
Leake, Frederic,	New York City,	3 N D
*Luke, Charles Wilson,	New York City,	52 P
McDermott, William Combs,	Elizabeth, N. J.,	15 N M R
McKaig, Edgar Stanley,	Philadelphia, Pa.,	8 W B
Maury, Austin Gardette,	Philadelphia, Pa.,	86 Stockton St.
Neff, William Rowell,	Geneva, Ill.,	92 P
Nichols, Corwin Clinton,	Wilmington, O.,	20 P
Osborne, Ralph Dodd,	West Orange, N. J.,	92 P
Parkin, Harold Clarke,	Chester, Pa.,	34 P
Robinson, Robert Gibson,	New Orleans, La.,	6 S E B
Ryan, Arthur,	Sunderland, Mass.,	10 W M W
Scott, Andrew Horace,	Little Rock, Ark.,	2 E B
Shafer, Dallas Armstrong,	New York City,	4 N R
Shedd, Edward Johnson,	Denver, Col.,	6 S E B
Smith, George Doane,	Newark, N. J.,	54 '79 H
Southworth, Frank Palmer,	Wakefield, Mass.,	24 B
Studer, Augustus Carl, Jr.,	Montclair, N. J.,	84 B
Talbot, Benson Alvin,	Chicago, Ill.,	12 P
Vanderhoef, George Wyckoff, Jr.,	New York City,	7 U
van der Voort, Joseph Nelson,	Dunkirk, N. Y.,	41 B
Wallace, Robert Wisdom,	Paducah, Ky.,	5 W M W

* Candidate for degree in February, 1909.

West, William Tantum,	Camden, N. J.,	84 B
Wilmerding, Louis Earle,	Morristown, N. J.,	13 N D
Wister, Lewis Caspar,	Germantown, Pa.,	6 U P

ACADEMIC SENIORS 186

ACADEMIC JUNIOR CLASS

CANDIDATES FOR THE A.B. DEGREE

Ankeney, Frederick Newcomer,	Clear Spring, Md.,	3 E B
Annin, Robert Edwards, Jr.,	Summit, N. J.,	8 S W
Armour, Norman,	Princeton, N. J.,	184 L
Armstrong, George Alexander,	New York City,	7 L P
Ballin, Douglas David,	New York City,	3 S W B
Benedict, Herbert Williams,	West Pittston, Pa.,	7 Park Pl.
Boas, Herbert Allan,	New York City,	122 L
Booker, Lester Harry,	Helena, Mont.,	71 P
Brady, Samuel Stansbury,	Baltimore, Md.,	63 '79 H
Buchanan, John Grier,	Pittsburg, Pa.,	91 P
Bunting, Aubrey Reeves,	Philadelphia, Pa.,	83 P
Burnett, Charles Hurd,	Paterson, N. J.,	32 B
Butler, William Allen, III,	New York City,	7 L P
Caldwell, Henry Sanders,	Pine Bluff, Ark.,	83 P
Cameron, William Roberts,	Irwin, Pa.,	17 M D
Carroll, Norman Francis,	Newark, N. J.,	72 B
Carver, Wallace Harper,	Princeton, N. J.,	34 Vandeventer Av.
Cass, Newton Russell,	Nichols, N. Y.,	5 E B
Chambers, Benjamin Bright,	Chambersburg, Pa.,	14 S M R
Chisholm, Corydon Stewart,	Princeton, N. J.,	98 Mercer St.
Cist, Charles Frank,	Cincinnati, O.,	30 P
Clark, John Holley, Jr.,	Flushing, N. Y.,	6 S W
Colborn, Andrew Jackson,	Frostburg, Md.,	9 E B
Conger, Arthur McCrea,	Rosemont, Pa.,	4 N D
Connett, Francis Speir,	South Orange, N. J.,	14 P
Cook, Joseph Alexander,	Montclair, N. J.,	8 S W
Cooper, John Cobb, Jr.,	Jacksonville, Fla.,	31 Nassau St.
Coxe, Charles Shearman,	Utica, N. Y.,	52 '79 H
Craven, Thomas Stokes,	Philadelphia, Pa.,	5 S M R
Cunningham, Frank Loughran,	New York City,	12 U

Dawbarn, Waring Lennox,	New York City,	116 B
Dick, Harry Kissingen,	Reading, Pa.,	9 E B
Dietrich, Harold Early,	Harrisburg, Pa.,	8 M D
Dillon, Edward Aloysius	Lawrence, Mass.,	3 L P
Dodd, Edward Mills,	Montclair, N. J.,	9 S W
Dodge, Bayard,	New York City,	64 '79 H
Dodge, Cleveland Earl,	New York City,	64 '79 H
Dougherty, Edwin Vernon, Jr.,	Haverford, Pa.,	52 '79 H
Dowd, Heman Laurence,	Orange, N. J.,	171 L
Drewes, Howard,	Philadelphia, Pa.,	4 S M R
Ehrehart, Charles Fisher,	Hanover, Pa.,	12 N M R
Ewing, Nathaniel, Jr.,	Bryn Mawr, Pa.,	86 Nassau St.
Farr, John, Jr.,	Short Hills, N. J.,	13 '79 H
Fenninger, Laurence,	Philadelphia, Pa.,	4 S M R
Fox, Newton Kennedy,	Washington, D. C.,	64 L
Freese, Ambrose,	Pottstown, Pa.,	39 Univ. Pl.
Fry, Morton Harrison,	Ephrata, Pa.,	10 S E B
Gill, James Holton,	Steubenville, O.,	53 B
Gillespie, Thomas James, Jr.,	Pittsburg, Pa.,	73 P
Gilpin, Donald Newcomer,	Baltimore, Md.,	31 Nassau St.
Glover, Samuel Reeves,	Haddonfield, N. J.,	1 S Ed
Gordon, Spencer,	Washington, D. C.,	7 N W
Graff, Peter,	Worthington, Pa.,	6 N D
Green, Dwight Phelps,	Fulton, Ill.,	7 S D
†Green, Edward Franklin,	Buffalo, N. Y.,	62 L
Groeneveld, John Axtell,	Butte, Mont.,	22 B
Henderson, George,	Cumberland, Md.,	61 '79 H
Henry, Thomas Charlton,	Philadelphia, Pa.,	184 L
Hetzel, William Barr,	Pittsburg, Pa.,	15 S D
Hill, Richard Harrison,	New Castle, Ky.,	15 M D
Hinton, Sebastian,	Washington, D. C.,	7 N W
Holsapple, Earle Taylor,	Hudson, N. Y.,	53 L
Howard, Lawrence,	Saint Paul, Minn.,	5 N M R
Huddleson, James Howard, Jr.,	Portland, Ore.,	7 S E B
Hutcheson, William Palmer,	Houston, Tex.,	15 S D
Hutchins, James Cadwell, Jr.,	Chicago, Ill.,	74 B
Hutchinson, Charles Percy,	Trenton, N. J.,	42 B
Hutchinson, Mahlon,	Georgetown, N. J.,	7 B
Jennings, Lacy Donoho,	Saint Louis, Mo.,	36 L
Jones, James Chester, Jr.,	Saint Louis, Mo.,	15 B

† Candidate for degree in February, 1910.

Keen, Frank Adams,	Philadelphia, Pa.,	104 P
Kent, Platt,	New York City,	80 P
Kerr, Edwin Silas Wells,	Wilkes-Barre, Pa.,	53 '79 H
Keys, William Anderson, Jr.,	New York City,	122 L
King, Rolland Rose,	Bloomfield, N. J.,	18 S W
La Roe, Wilbur, Jr.,	Perth Amboy, N. J.,	1 S E B
Laubach, Frank Charles,	Benton, Pa.,	12 S M R
McGee, William Lewis,	Wilkes-Barre, Pa.,	39 S Ed
Mackie, Norman Story,	Philadelphia, Pa.,	22 '79 H
McWilliams, Norman Beattie,	Ossining, N. Y.,	3 N R
Maresi, Pompeo Margherita,	Brooklyn, N. Y.,	72 P
Maulsby, Henry Hanson,	Frederick, Md.,	23 B
Maury, James Robb, Jr.,	Philadelphia, Pa.,	10 N W
Mayer, Ferdinand Lathrop,	Indianapolis, Ind.,	74 B
Medina, Harold Raymond,	Brooklyn, N. Y.,	72 P
Meese, David Osborne,	Mansfield, O.,	6 S W
Mulford, Roland Heishon,	Camden, N. J.,	32 B
Murray, Steuben Butler, Jr.,	Germantown, Pa.,	6 N W
Myers, Abraham Charles,	Williamsport, Pa.,	62 '79 H
Myers, Frank Claton,	Bermudian, Pa.,	10 S E B
Myers, William Heyward, Jr.,	Williamsport, Pa.,	62 '79 H
Nichols, Charles Herbert,	Trinidad, Col.,	10 S D
Niles, Frank Sergeant,	Sackets Harbor, N. Y.,	15 S M R
Northwood, Arthur,	Trenton, N. J.,	7 N R
Nutting, John Hugh,	Montclair, N. J.,	2 S W
Ober, Douglas,	Baltimore, Md.,	62 P
Ober, John Hambleton,	Baltimore, Md.,	62 P
Ogden, Elliott Matthews,	Milwaukee, Wis.,	12 B
Olcott, Gage,	Montclair, N. J.,	3 W B
Olds, Edward Clarence,	Fort Wayne, Ind.,	52 B
Osborn, Henry Fairfield, Jr.,	New York City,	162 L
Ottinger, William Nickerson,	Philadelphia, Pa.,	43 B
Parsons, Richard Percival,	Garden City, N. Y.,	70 P
Passarella, Michael,	Colora, Md.,	93 B
Peacock, James Craig,	Philadelphia, Pa.,	19 N W
Peirce, Caleb Clarence,	Philadelphia, Pa.,	11 B
Phillips, Charles Kaufman,	Dauberville, Pa.,	10 S R
Phraner, Spencer Wilson,	Bloomfield, N. J.,	18 N W
Plaut, L Simon,	Newark, N. J.,	52 L
Plunkett, Charles Taylor,	Adams, Mass.,	14 L
Quinn, John Randolph, Jr.,	Brooklyn, N. Y.,	138 Nassau St.
Rankin, Edward Elmendorf,	Albany, N. Y.,	6 Nassau Inn

Rankin, Herbert Edward,	Albany, N. Y.,	6 Nassau Inn
Reynolds, Hewitt,	Cumberland, Md.,	61 '79 H
Richardson, Leonard Woods,	Albany, N. Y.,	11 B
Riddle, Robert Jemison, Jr.,	Nashville, Tenn.,	3 E B
Roberts, Donald,	Brooklyn, N. Y.,	53 '79 H
Ropes, Ripley,	Morristown, N. J.,	21 B
Samuels, Arthur Hiram,	Hartford, Conn.,	104 P
Sanford, Arthur Hunt,	Mamaroneck, N. Y.,	23 B
Sanford, Ferdinand Doan,	Warwick, N. Y.,	61 P
*Schaff, Walter,	Allegheny, Pa.,	133 L
*Scott, Charles Hodge,	Princeton, N. J.,	56 Bayard Lane
Scott, Leighton Pearson,	Summit Hill, Pa.,	10 S R
Scull, John Irwin,	Somerset, Pa.,	15 N D
Shand, William,	Lancaster, Pa.,	20 E W
Shellabarger, Samuel,	Washington, D. C.,	2 W B
Shultz, Daniel Shultz,	Philadelphia, Pa.,	9 N R
Sichelstiel, Alfred Joseph,	Pittsburg, Pa.,	71 B
Sidwell, Paul,	Frankford, Ind.,	36 L
Silvers, William Russell,	Cranbury, N. J.,	9 N W
Smith, Ritchie Hasbrouck,	Harrisburg, Pa.,	15 S W
Spencer, Charles DuPuy,	Erie, Pa.,	11 M D
Stern, Kenneth Gibson,	Westfield, N. J.,	14 N W
Stevenson, Philip Henry,	Braddock, Pa.,	6 S D
Stockton, William Tennent,	Jacksonville, Fla.,	7 S R
Stohlmann, William Frederick,	Brooklyn, N. Y.,	64 B
Strange, Robert,	South Orange, N. J.,	3 N R
Thomas, Isaac,	Pottstown, Pa.,	9 E W
Thomas, Ralph Llewellyn,	Lewisburg, Pa.,	9 S W
Thorburn, Grant,	Rockaway, N. J.,	21 B
Tomlinson, Paul Greene,	Elizabeth, N. J.,	86 Nassau St.
Trimble, Henry Weekes,	Montclair, N. J.,	5 M D
Wyckoff, Ernest Holt,	Stroudsburg, Pa.,	90 P
Zimmerman, Levi Saylor,	Lebanon, Pa.,	30 P
Zinsser, William Herman,	New York City,	54 L

CANDIDATES FOR THE LITT.B. DEGREE

Adams, Carleton E,	Atlantic City, N. J.,	6 N D
Barchfeld, Elmer Andrew,	Pittsburg, Pa.,	16 M D
Black, Harry C,	Baltimore, Md.,	23 P

* Candidate for degree in February, 1910.

Blun, F Melville,	New York City,	42 L
Boice, Arthur Dent,	Fort Worth, Tex.,	64 L
Carpenter, Farrington Reed,	Hayden, Col.,	2 S E B
Carr, Burton James,	Springfield, O.,	168 Nassau St.
Chambers, James Wheaton,	Freehold, N. J.,	15 N M R
Chaplin, Hugh,	Ridgewood, N. J.,	171 L
Chapman, Percy Addison,	Plainfield, N. J,	6 S W B
Dickinson, Clinton Roy,	Newark, N. J.,	104 B
Dixon, Fitz-Eugene,	Philadelphia, Pa.,	22 '79 H
Feick, Carl Adrian, Jr.,	Newark, N. J.,	153 L
Fiddler, Earle Thomas,	New Brighton, Pa.,	21 S Ed
Funk, Wilfred John,	Brooklyn, N. Y.,	16 L
Gamble, Ralph Abernethy	Yankton, S. Dak.,	123 L
Gay, John,	Philadelphia, Pa.,	86 Nassau St.
Hartshorne, Richard,	Newark, N. J.,	43 B
Ivins, Clinton Fox,	Plainfield, N. J.,	5 M D
Jamison, Ralph Eccles,	Greensburg, Pa.,	6 S D
Knauer, Clarence Edgar,	Atlantic City, N. J.,	71 P
Koch, Roscoe Richard,	Pottsville, Pa.,	90 P
Lawrence, Wayman Clarkson, Jr.,	Columbus, O.,	73 B
Leeper, William Franklin,	Marietta, O.,	10 W B
Le Fevre, Cory Alfred,	Dayton, O.,	35 William St.
McNeely, Charles Wilson,	Philadelphia, Pa.,	95 P
Matter, Milton,	Marion, Ind.,	95 P
Mosher, Orville Watson, Jr.,	New Richmond, Wis.,	6 Nassau Inn
Murray, James Wilson,	Piqua, O.,	2 W B
Ober, Albert Graham, Jr.,	Lutherville, Md.,	23 P
Phillips, Schuyler,	Yonkers, N. Y.,	54 L
Prizer, William Mann,	Philadelphia, Pa.,	5 S R
Rentschler, Fred Brant,	Hamilton, O.,	10 S D
Robinson, Hamilton Whitney,	Yonkers, N. Y.,	61 P
Rogers, Charles Henry,	New York City,	109 P
Rupert, William Earl,	Pottstown, Pa.,	9 E W
Selby, Edgar Cantwell,	Coshocton, O.,	54 B
Sherrill, Howard Walden,	East Orange, N. J.,	6 E B
Sprague, Carl Otto Muller,	New York City,	15 N D
Turner, Howard Griffin,	Paterson, N. J.,	53 B
Turner, Horatio Whitridge,	Princeton, N. J.,	31 Nassau St.
Vaughan, John Patrick,	Scranton, Pa.,	4 S Ed
Verner, Alexander Wilson,	Pittsburg, Pa.,	10 N W
Vezin, Charles, Jr.,	Yonkers, N. Y.,	105 P
Wagman, Lewis Bennett,	Saratoga Springs, N. Y.,	6 E B

Wallace, Ralph Ward,	Chicago Heights, Ill.,	7 S D
Walter, Albert Gustave,	Pittsburg, Pa.,	16 M D
Whaley, Francis Marion,	Charleston, S. C.,	32 '79 H

ACADEMIC JUNIORS.....194

ACADEMIC SOPHOMORE CLASS

CANDIDATES FOR THE A.B. DEGREE

Allison, John Maudgridge,	Pittsburg, Pa.,	1 L P
Bamberger, Julian Maas,	Salt Lake City, Utah,	12 W W
Bates, Harold Edwards,	Portland, Oregon,	1 Nassau Inn.
Benton, Dudley Chester,	Fargo, N. Dak.,	61 L
Bergin, Francis Sebastian,	New Haven, Conn.,	82 Nassau St.
Bingley, George Althoff,	Watertown, N. Y.,	16 Nassau Inn
Boyd, James, Jr.,	Harrisburg, Pa.,	31 '79 H
Brooks, Stephen Bonsal,	Baltimore, Md.,	12 '79 H
Butler, Charles Marshall,	Washington, D. C.,	31 B
Butler, Lyman Collins,	New York City,	161 L
Cadwell, Paul Newton,	Atlantic City, N. J.,	16 Nassau Inn
Cahill, Walter Louis,	New York City,	172 L
Camp, Sewall Frederick,	Watertown, N. Y.,	11 S E B
Campbell, Stephen,	Philadelphia, Pa.,	10 E M W
Carter, John Lawrence,	Montclair, N. J.,	44 L
Clarke, Edward Hobson, Jr.,	Owensboro, Ky.,	P, U
Close, Harold Wilberforce,	Scranton, Pa.,	17 S W
Colver, Frederic Beecher,	Tenafly, N. J.,	6 W M W
Conger, Richard Stockton,	Rosemont, Pa.,	5 N D
Critchlow, Francis Bascom,	Salt Lake City, Utah,	144 Nassau St.
Darlington, Clinton Pelham,	New York City,	2 L P
Dennis, James Shepard, II,	Morristown, N. J.,	32 P
Dodge, Donald Davidson,	Haymarket, Va.,	14 U P
Eadie, James Suydam, Jr.,	Flushing, N. Y.,	2 S W B
Efros, Jacob Stewart,	Lakewood, N. J.,	10 Witherspoon St.
Emery, John Mackie,	Morristown, N. J.,	44 B
Farr, Henry Bartow,	Short Hills, N. J.,	31 '79 H
Ferry, Louis Knowles,	East Orange, N. J.,	11 S W
Finch, Ernest Roosevelt,	New Rochelle, N.Y.,	15 S Ed
Findley, Everett Thornton,	Newark, N. J.,	45 Vandeventer Av.
Fine, John,	Princeton, N. J.,	186 L

Fleet, William Hamilton Theophilus,	Cresskill, N. J.,	39 U
Fleming, William Lowrie,	New York City,	51 B
Frazer, Robert Ewing,	Pittsburg, Pa.,	63 P
Fritts, Frank,	Chester, N. J.,	5 S W
Gerlach, Acton,	Yonkers, N. Y.,	8 E M W
Gilmore, D Percy,	Brooklyn, N. Y.,	13 N W
Goldsmith, William DeLacy,	South Orange, N. J.,	2 N D
Hall, Melvin Adams,	New York City,	71 L
Hamilton, Samuel Lowrie,	Wilmington, Del.,	11 S W
Harrer, Gustave Adolphus,	Briarcliff Manor, N. Y.,	31 William St.
Hastings, Warren Hardy,	New York City,	5 S W B
Hastings, Walter Scott,	Snow Hill, Md.,	6 W W
Hatfield, Walter Bossert,	Schwenkville, Pa.,	1 E B
Hazen, William Gardner,	New York City,	11 Nassau Inn
Herrmann, Jesse,	Stirling, N. J.,	13 S M R
Hills, Robert,	Mifflintown, Pa.,	39 N Ed
Hinds, Thomas Nash,	Richmond Hill, N. Y.,	172 L
Horner, Burtis Singleton,	Lakewood, N. J.,	8 S R
Hughes, Howard Larison,	Trenton, N. J.,	17 N W
Hughes, John Francis,	Bellows Falls, Vt.,	144 Nassau St.
Hunter, Stanley Armstrong,	Denver, Col.,	42 N Ed
Irwin, Chester Martindale,	Overbrook, Pa.,	1 N Ed
John, William Mestrezat,	Trinidad, Col.,	183 L
Jones, Herbert,	Chicago, Ill.,	D, Hill
Keeney, Orel Pope,	Elizabeth, N. J.,	16 B
Kelly, Harry Frederick,	Pittsburg, Pa.,	26 M D
Keyes, Clinton Walker,	Monterey, Mass.,	16 N W
Kimball, Paul,	Chelsea, Mass.,	14 E W
King, John Theodore, Jr.,	Baltimore, Md.,	2 S W B
Kirkpatrick, John Alexander,	Trenton, N. J.,	17 N W
Lawrence, David,	Buffalo, N. Y.,	1 W W
Leake, Joseph Bryant,	New York City,	131 L
Lloyd, Gardner Pleasants,	East Orange, N. J.,	144 L
Lowe, Lawrence Francis,	Cleveland, O.,	23 '79 H
McAdoo, Francis Huger,	Yonkers, N. Y.,	7 U P
McCord, William Wittick,	Chicago, Ill.,	6 E M W
McDermott, Malcolm Mallette,	Chattanooga, Tenn.,	Dodge Hall
MacFadyen, Donald MacKenzie,	Boston, Mass.,	1 N D
McMillan, Leighton Gaines,	Mobile, Ala.,	164 L
McPherson, John Finlay,	Lawrenceville, N. J.,	17 B
Mattes, Philip Van Cleef,	Scranton, Pa.,	17 S W
Mershon, Stephen Lyon, III,	Montclair, N. J.,	7 N M R

Merzbacher, Simon, Trenton, N. J.
Miller, George Norton, Jr., New York City, 161 L
Minch, Robert Francis, Bridgeton, N. J., 144 Nassau St.
Mitchell, Spencer Trask, Hartford, Conn., 100 P
Munkittrick, Malcolm Turner, Summit, N. J., 12 E B
Norris, William Mitchill, Jr., Princeton, N. J., 69 Alexander St.
Ober, Frank Benedict, Lutherville, Md., 71 L
Orr, George Noyes, Evanston, Ill., 142 L
Osborn, Frederick Henry, New York City, 4 U P
Pennington, Hall Pleasants, Baltimore, Md., 12 M D
Pennington, James Andrew Gregg, Baltimore, Md., 112 L
Pope, Stanley Leroy, Trenton, N. J., 20 S W
Potter, John Hamilton, Philadelphia, Pa., 19 M D
Potter, Sheldon Cary, Cleveland, O., 8 E M W
Read, Frederic Bliss, Pawtucket, R. I., 2 U P
Reed, Harold Francis, Beaver, Pa., 144 Nassau St.
Reed, Philip B, Clearfield, Pa., 79 U
Richardson, William Emanuel, Bernville, Pa., 92 B
Rolston, Brown, New York City, 102 B
Sanborne, George Gates, Philadelphia, Pa., 1 N Ed
Schehr, Lazar, Princeton, N. J., 38 S Ed
Shimer, Stanley Gordon, Middletown, N. Y., 80 Nassau St.
Sichelstiel, Bertram Leo, Pittsburg, Pa., 71 B
Sinclair, Donald Bunker, New York City, 11 U P
Small, Charles Russell, Harrisburg, Pa., 16 N W
Smith, Daniel Morris, Atlantic City, N. J., 51 B
Sommerville, Rufus John, New York City, 7 N D
Spencer, George Frink Melvin, Newark, N. J., 12 N W
Spring, Royce Riker, Trappe, Md., 8 W M W
Sprunt, James Laurence, Wilmington, N. C., 17 B
Stephens, Lee Walter, Brooklyn, N. Y., 20 B S
Stevenson, William Cooper, Yonkers, N. Y., 32 P
Stewart, George Scott, Jr., Philadelphia, Pa., 6 W M W
Stitt, Philip Hivling, Milwaukee, Wis., 12 S D
Stryker, Laurence Clarkson, Bound Brook, N. J., 10 E M W
Sütter, Daniel, Mount Holly, N. J., Hill
Taylor, James Swan, Altoona, Pa., 90 Nassau St.
Terry, David John, Philadelphia, Pa., 7 S W
Thomson, William Kelty Cruickshank, Lonaconing, Md., 18 S M R
Tiemann, Julian Leslie, Upper Montclair, N. J., 1 B
Todd, Russell Webster, New York City, 11 Nassau Inn
Tonnelé, Theodore Mills, Pittsburg, Pa., 73 P

Van Dyke, John Camp,	Milwaukee, Wis.,	121 L
Van Wagenen, Noël Bleecker,	Orange, N. J.,	12 S W
Van Winkle, Cortlandt,	Buffalo, N. Y.,	1 L P
Veeder, Lyman Bradt,	Utica, N. Y.,	4 E B
Vermilye, Herbert Noble,	Orange, N. J.,	12 N W
Waller, James Breckenridge, Jr.,	Chicago, Ill.,	8 L P
Waller, Percy Elmer,	Skaneateles, N. Y.,	36 P
Watters, Philip Sidney,	Yonkers, N. Y.,	7 S W
Weeks, Richard Franklin,	New York City,	39 U
Westenhaver, Edward Paull,	Cleveland, O.,	6 E W
White, Edward Hurley, Jr.,	New York City,	124 L
Wilkins, Walter Maurice,	Buffalo, N. Y.,	68 L
Wilson, Philip Howard,	Princeton, N. J.,	73 Stockton St.
Wilson, Robert Smith,	Pittsburg, Pa.,	97 B
Wilson, Walter Otis,	Chicago, Ill.,	132 L
Wolf, James Stanley,	New York City,	7 E M W
Woodruff, Thomas Simonson,	Newton, N. J.,	168 Nassau St.
Wyeth, Marion Sims,	New York City,	142 L
Zimmermann, Alphonse,	Brooklyn, N. Y.,	1 Nassau Inn
Zinsser, Rudolph,	New York City,	103 B

ACADEMIC SOPHOMORES.....135

ACADEMIC FRESHMAN CLASS

CANDIDATES FOR THE A.B. DEGREE

Abbotts, William, Jr.,	Trenton, N. J.,	35 N Ed
Arnold, Nezza Nevello,	Dillsburg, Pa.,	2 S Ed
Ayres, Thomas Grayson,	Pittsburg, Pa.,	Hill
Bament, Lawrence Maxwell,	New York City,	20 M D
Bardsley, William Wright,	Upper Montclair, N. J.,	15 W W
Bentley, Fayette Rhodes,	Lock Haven, Pa.,	14 S Ed
Berry, Allen Douglas,	Nashville, Tenn.,	33 Edwards Pl.
Bickford, John Dean,	Columbus, O.	5 E W
Biddle, Charles John,	Andalusia, Pa.,	Edwards Pl.
Black, Robert Fagar,	Harrisburg, Pa.,	34 Vandeventer Av.
Blackstone, Arthur Rufo,	Youngstown, O.,	Murray-Dodge
Buchanan, Harold Higgins,	Utica, N. Y.,	12 Park St.
Burr, Hugh Chamberlin,	Gloversville, N. Y.,	H, U

Butts, Allison, Jr., Poughkeepsie, N. Y., 32 Vandeventer Av.
Carey, Joseph Jackson, Brooklyn, N. Y., 45 U
Carter, Reginald Loomis, East Orange, N. J., 39 Univ. Pl.
Chisolm, James Julian, Natchez, Miss., 17 E W
Christy, Taylor Bassett, Cleveland, O., 11 Univ Pl.
Clark, Alexander Beattie, Prince Ed. Island, Canada, 156 Nassau St.
Cleveland, Stanley Matthews, Glendale, O., 28 Vandeventer Av.
Cochran, Todd Dresser, Johnstown Pa., 34 Vandeventer Av.
Collord, James Harold, Buffalo, N. Y., 7 S W B
Connelly, Marion Sims, Brooklyn, N. Y., 35 S Ed.
Conner, George Russell, Mt. Vernon, N. Y., 46 Vandeventer Av.
Crawford, Evans, Louisville, Ky., 18 M D
Critchlow, George Arthur, Salt Lake City, Utah, 46 Vandeventer Av.
Dale, Julian Kalfus, Louisville, Ky., 39 Univ. Pl.
Daub, John Justus, Pittsburg, Pa., 39 Univ. Pl.
Dickey, William Douthett, Pittsburg, Pa., 15 Univ. Pl.
Dillon, Edward Saunders, Woodbury, N. J., 4 S E B
Disbrow, Harold Ball, Lakewood, N. J., 30 Mercer St.
Duffield, Muir Buell, Detroit, Mich., 11 Univ. Pl.
Dwight, Maitland, Convent Station, N. J., 15 Dickinson St.
Eddy, William Woodbridge, New Rochelle, N Y., 12 N Ed.
Elder, Robert Dull, Leadville, Colo., 36 Wiggins St
Ely, Mahlon Long,, Columbia, Pa., 15 N W
Estes, Joseph Beecham, New York City, 36 Wiggins St.
Fanning, Leonard M., New York City, 32 Vandeventer Av.
Fleet, William Hamilton Theophilus, Cresskill, N. J., 39 U
French, Dudley, St. Louis, Mo., 28 Vandeventer Av.
Gause, Beverley Roberts, Wilmington, Del., 17 N Ed
Gibson, Wesley Burrows, East Orange, N. J., 14 '79 H
Graff, John Frank, Jr., Worthington, Pa., 34 Vandeventer Av.
Granbery, William Langley, Jr., Nashville, Tenn., 33 Edwards Pl.
Hart, Thomas Arthur, New York City, 15 N W
Hoes, Gouverneur, Norfolk, Va., 39 Univ. Pl.
Holt, Horace, New York City, 9 U
Houston, Henry Aydelotte, Jr., Millsboro, Del., 34 Vandeventer Av.
Hughes, Blackburn, Charleston, S. C., 32 Vandeventer Av.
Jacobs, Benjamin Homer, Philadelphia, Pa., 12 S Ed
Janvier, Ernest Paxton, Philadelphia, Pa., 15 N Ed
Jayne, Wilfred Hudson, Jr., Lakewood, N. J., 47 Univ. Pl.
Johnston, James Marion, Jr., Washington, D. C., 9 U P
Kelly, Walter Howard, Pittsburg, Pa., 39 Univ. Pl.
Kennedy, George Edward, Naugatuck, Conn., 31 S Ed

Kennedy, James Charles, Jr., Brooklyn, N. Y., 11 Univ. Pl.
Kennedy, Joseph Elliott, Allegheny, Pa., 27 M D
Krauthoff, Philip Chappell, New York City, 15 Univ. Pl.
Lawrence, Robert Rutherfurd, Flushing, N. Y., 34 Vandeventer Av.
Lewis, Mead Allyn, New York City, 164 Nassau St.
Lichtenstein, Harry Siegel, New York City, Edwards Pl.
Lionberger, John Shepley, St. Louis, Mo., 4 L P
Lytle, Scott Harrison, New York City, 18 W W
Macfarlane, Howard Pettengill, Tampa, Florida, 2 Nassau St.
McIntire, Henry Gordon, Helena, Mont., 32 Vandeventer Av.
McLanahan, Allen, Lawrenceville, N. J., Lawrenceville, N. J.
MacMurdy, Robert Duncan, New York City, E, E B
Macurda, William Hayward, Watertown, Mass., 31 Univ. Pl.
Maires, Thomas Ware, Brooklyn, N. Y., 17 Bank St.
Mann, Joseph Francis, Bloomfield, N. J., B, W B
Marsh, James Ingraham, Pittsburg, Pa., 19 Univ. Pl.
Mayers, Isaac, Harrisburg, Pa., 19 S Ed
Mead, Lawrence Myers, Plainfield, N. J., J, Hill
Meagley, George Crandal, Washington, D. C., 41 Univ. Hall
Meaker, Samuel Raynor, Carbondale, Pa., 60 Univ. Pl.
Melick, Ulysses Grant, Trenton, N. J., 32 N Ed
Meredith, William Morris, Jr., Princeton, N. J. 8 Dickinson St.
Merle-Smith, Van Santvoord, New York City, 47 Univ. Pl.
Miller, LeRoy Baldwin, Indianapolis, Ind., Edwards Pl.
Milliken, William Mathewson, Stamford, Conn., 32 Vandeventer Av.
Moffat, Frank Everest, New York City, 33 Edwards Pl.
Monroe, Andrew Perrine, Philadelphia, Pa., Edwards Pl.
Morse, Harry Franklin, II., New York City, 33 Edwards Pl.
Musser, James Coburn, Akron, O., 7 E W
Muzzey, William Munroe, Philadelphia, Pa., 53 Univ. Pl.
Muzzy, Henry Earle, Paterson, N. J., 47 Univ. Pl.
Nevin, Ethelbert Paul, New York City, 15 Univ. Pl.
Nicoll, William Leonard, New York City, 11 L P
Ober, Beverly, Baltimore, Md., Edwards Pl.
Olcott, Charles Townsend, New York City, 47 Univ. Pl.
Patton, Robert Lucien, Lexington, Ky., 19 Univ. Pl.
Paul, Theodore Sedgewick, Philadelphia, Pa., 47 Univ. Pl.
Perkins, Clarence Basil, Denver, Colo., 45 Univ. Pl.
Pierce, William Lennox, Jr., New York City, 31 Univ. Pl.
Pierson, Norris Edward, Stamford, Conn., 3 S D
Pierson, Samuel Norris, Stamford, Conn., 3 S D
Porter, James Jackson, New York City, 33 Edwards Pl.

Pyle, William Scott, Jr., Bernardsville, N. J., 47 Univ. Pl.
Raleigh, Stuart Francis, Syracuse, N. Y., 34 Vandeventer Av.
Reeves, Bartow Van Dewater, Jamaica, L. I., 60 Univ. Pl.
Reigner, Charles Gottshall, Pottstown, Pa., 9 S R
Rogers, Ross, Harrisburg, Pa., 19 S W
Savage, Charles Chauncey, Jr., Philadelphia, Pa., 16 Vandeventer Av.
Schenck, Alexander Tilton, Princeton, N. J., Princeton, N. J.
Schwob, Louis Andrè, New York City, 32 Vandeventer Av.
Seeley, deBenneville Keim, Englewood, N. J., 31 Univ. Pl.
Simons, Donald MacLaren, Elizabeth, N. J., 47 Univ. Pl.
Skidmore, Lemuel, Jr., Summit, N. J., 53 Univ. Pl.
Smith, Fulcher Perry, Spartansburg, Pa., 30 S Ed
Speers, William Ewing, Montclair, N. J., J, Hill
Strong, Malcolm Wheelock, Plainfield, N. J., 38 Wiggins St.
Struble, Robert McBride, Jersey City, N. J., 37 Nassau St.
Stump, Henry Arthur, Jr., Baltimore, Md., 19 Univ. Pl.
Tams, James Elmore Moffett, Trenton, N. J., 34 Wiggins St.
Taylor, Albert Allen, Millburn, N. J., 29 Vandeventer Av.
Taylor, Leslie Alan, Roselle, N. J., 27 Univ. Pl.
Thompson, Julian Francis, Jersey City, N. J., 15 Dickinson St.
Tuttle, Friend Lines, Jr., Hawley, Pa., 7 W W
Uhler, Alfred Mills, Glen Ridge, N. J., 34 Vandeventer Av.
Vezin, Cornelius Delamater, Yonkers, N. Y., 47 Univ. Pl.
Vredenburgh, Eugene Harramond, New York City, 46 Vandeventer Av.
Wallace, William Hockaday, Jr., Kansas City, Mo., 107 P
Waugh, Randall, Summit, N. J., 15 Univ. Pl.
Wells, Franklin Chamberlain, Jr., Bloomfield, N. J., 9 N D
Whaler, James Wellington, Wilmington, Del., 17 N Ed
Wheeler, Edgar Carroll Throckmorton, Montclair, N. J., 38 N Ed
Willouer, Aaron Lewis, Norwood, Pa., 29 S Ed
Winch, Simean Reed, Portland, Ore., 20 Vandeventer Av.
Wing, John Daniel, II., New York City, Edwards Pl.
Woodbridge, Thomas Dudley, New Brunswick, N. J., 25 N Ed
Woodruff, George Percy, Lakewood, N. J., F, W B
Woods, William Johnson, Lewistown, Pa., 72 U

ACADEMIC FRESHMEN.....132

Students in the John C. Green School of Science

SCHOOL OF ELECTRICAL ENGINEERING

Second Year

Kerr, Benjamin Warfield, B.S., Princeton, 1906.	Newark, N. J.,	Merwick
Merwin, John Oliphant, A.B., Princeton, 1903.	Washington, D. C.,	Merwick

First Year

Cunningham, Frederick William, B.S., Princeton, 1907.	Point Pleasant, N. J.,	3 N Ed
Penrose, Charles, B.S., Princeton, 1907.	Philadelphia, Pa.,	63 '79 H
Smith, Chandler Price,	Baltimore, Md.,	123 L

Students in the Electrical School.....5

School of Science Senior Class

Candidates for the B.S. Degree

Bane, William Mathews,	Denver, Col.,	33 '79 H
Bergland, William Scott,	Baltimore, Md.,	7 U
Bockoven, Francis Harold,	Basking Ridge, N. J.,	3 W W
Champlin, Charles Davenport,	Hammondsport, N. Y.,	20 P
Clark, Walton, Jr.,	Chestnut Hill, Pa.,	44, '79 H
Cowan, James Dickinson,	Summit, N. J.,	5 W M W
Daniel, Zaccheus,	Hawthorn, Pa.,	7 S Ed
Davis, Owen Llewellyn,	Denver, Col.,	13 B
Ebert, St. Gem,	Saint Louis, Mo.,	38 L
Harvey, Penn,	Pensacola, Fla.,	102 P
Harvey, Spencer Green,	Orange, N. J.,	33 '79 H
Hulbirt, Edwin Ray,	Lovelton, Pa.,	5 S Ed

Hutchison, Fred Rudy,	Alexandria, Pa.,	1 N M R
Kilgore, Richard,	Minneapolis, Minn.,	2 E M W
Latimer, Empie,	Wilmington, N. C.,	5 W W
Latimer, Herbert Russell,	Wilmington, N. C.,	5 W W
Looms, George, Jr.,	Louisville, Ky.,	9 S W B
Mount, Raymond Inslee,	East Orange, N. J.,	111 L
Ong, Edwin Mifflin,	Pittsburg, Pa.,	22 P
Shumway, Edward De Witt,	Chicago, Ill.,	96 B
Thibaut, Richard Edward, Jr.,	New York City,	42 P
Thompson, Laurance Mills,	Montclair, N. J.,	95 B
*Wood, Irving Emory,	Pittsburg, Pa.,	13 W W

CANDIDATES FOR THE C. E. DEGREE

Bishop, John V,	Columbus, N. J.,	7 B
Cappeau, Joseph Philip, Jr.,	Pittsburg, Pa.,	96 B
Case, Egbert De Forest,	Jersey City, N. J.,	40 P
Clark, David Hatfield,	New York City,	11 N D
Clark, Maurice Butler,	Cleveland, O.,	22 P
Cornwell, George Gilbert,	Washington, D. C.,	16 E W
Crane, Theodore,	Pelham Manor, N. Y.,	46 L
Dale, Le Ray Eldridge,	Syracuse, N. Y.,	24 L
Davidson, William Johnston,	Connellsville, Pa.,	35 L
Dolph, Stanley Edward,	Scranton, Pa.,	7 U
Duff, Malcolm Frederick,	Brooklyn, N. Y.,	11 N W
Fell, Frank Edward,	Trenton, N. J.,	10 N M R
Fish, Edward Charles,	Philadelphia, Pa.,	10 W M W
Frost, Robinson Victor,	Watkins, N. Y.,	2 E M W
Galey, Thomas Mellon,	Pittsburg, Pa.,	24 P
Gensler, Donald Eugene,	Yonkers, N. Y.,	111 L
Goppoldt, Paul Rudolph	Brooklyn, N. Y.,	11 N M R
Guillaudeu, Dudley,	Morristown, N. J.,	3 N D
Havron, John, Jr.,	Passaic, N. J.,	42 P
Holmes, Harold,	Boonton, N. J.,	27 N Ed
Horton, Walter Clark,	Peoria, Ill.,	21 L
Huston, James Alvah, Jr.,	Sewickley, Pa.,	21 L
Loomis, Earl,	Wilkes-Barre, Pa.,	3 W B
McCormick, James Bernard,	Boston, Mass.,	41 '79 H
March, William Allen,	Bridgeport, Pa.,	52 J
Munoz, Jorge,	Chihuahua, Mex.,	4 B
Peters, Ralph, Jr.,	Garden City, N. Y.,	7 W M W

*Candidate for degree in February, 1908.

Ralli, Constantine Paudia,	New York City,	34 P
Read, Charles Newman,	Pawtucket, R. I.,	1 U P
Springer, Wilbur Clark,	Salem, N. J.,	40 P
Stevens, Rolland Ezra,	Joliet, Ill.,	6 N R
Stoever, Edward Royal,	Germantown, Pa.,	6 U P

SCHOOL OF SCIENCE SENIORS.....55

SCHOOL OF SCIENCE JUNIOR CLASS

CANDIDATES FOR THE B.S. DEGREE

Arnett, William Woodward, Jr.,	Philadelphia, Pa.,	101 P
Beam, John Cooke,	Paterson, N. J.,	86 Nassau St.
Beckwith, Edgar Williams,	East Orange, N. J.,	14 '79 H
Berry, Allan Hall,	Toms River, N. J.,	7 W B
Blodgett, William Nelson,	Trenton, N. J.,	7 N R
Booth, Albert Edward,	Bradford, Pa.,	12 S W B
Breese, James Lawrence, Jr.,	New York City,	162 L
Burk, Charles August David,	Philadelphia, Pa.,	3 B
Burk, Edwin Henry,	Philadelphia, Pa.,	42 B
Crosby, William Floyd,	San Rafael, Cal.,	6 Nassau Inn
Dunlop, Walter Grafton,	Washington, D. C.,	9 B
Findley, Paul Bruce,	Sewickley, Pa.,	13 E W
Kellogg, John Young,	Millburn, N. J.,	10 M D
Kimball, Harold,	Philadelphia, Pa.,	2 S E B
Martin, Alexander Tertius,	Germantown, Pa.,	44 '79 H
Milne, Alexander, Jr.,	White Plains, N. Y.,	9 N W
Moore, Edwin,	Danville, Pa.,	15 E W
Morrow, Herbert Sproul,	Wilmington, Del.,	11 W B
Olcott, Alfred Van Santvoord,	New York City,	22 B
Smith, Harrison Albert,	Neenah, Wis.,	8 S E B
Surbrug, John Willard, Jr.,	Montclair, N. J.,	9 M D
Wilder, Laurence Russell,	Evanston, Ill.,	32 '79 H
Wilson, Philip Danforth,	Evanston, Ill.,	12 S W B

CANDIDATES FOR THE C.E. DEGREE

Ackerson, Frederick Layton,	East Orange, N. J.,	12 W B
Baker, William Edgar, Jr.,	Greenwich, Conn.,	93 P
Bonner, David, Jr.,	Stamford, Conn.,	1 W B

Bothwell, Edward Graham,	Allegheny, Pa.,	34 B
Boyd, Joseph Fulton, Jr.,	Chambersburg, Pa.,	34 '79 H
Brush, Joshua Cooley,	New York City,	3 S W B
Budd, Daniel Spencer,	Chester, N. J.,	3 W W
Campbell, Milton Argyle,	Plattsburg, Mo.,	75 B S
Chapman, John Lee,	Baltimore, Md.,	98 B
Clarke, Alexander Vinton,	Philadelphia, Pa.,	13 S D
Dennis, Crowell Marsh,	Princeton, N. J.,	38 Wiggins St.
Dolph, Harold William,	Scranton, Pa.,	72 B
Earle, Francis,	Elizabeth, N. J.,	41 B
Este, Jonathan Dickinson,	Philadelphia, Pa.,	9 M D
Floyd, Nicoll, II,	Garden City, N. Y.,	70 P
Gordon, Stephen Robbins,	Lakeside, N. J.,	8 S E B
Gray, Silvia Thompson,	Pittsburg, Pa.,	104 B
Hagenbuch, Rea Isaiah,	Bloomsburg, P[illegible].,	11 W B
Hallimond, William John,	New York City,	83 B
Hardison, Francis Baxter,	Geneva, N. Y.,	10 S W B
Heyniger, William Sinclair, Jr.,	Corning, N. Y.,	41 B
Hildebrant, Walter George,	New York City,	93 P
House, Charles Lucius,	Salonica, Turkey,	15 S W
Howell, Alexander Robert,	New York City,	11 N D
Jahn, Nicholas Firth,	Seattle, Wash.,	62 B
Kelley, Eugene Cornell,	Poughkeepsie, N. Y.,	54 B
Latta, William James, Jr.,	Philadelphia, Pa.,	12 B
Lippincott, Jesse,	Woodstown, N. J.,	73 B
Little, Alfred Aeschimann,	Brooklyn, N. Y.,	64 B
MacDonald, John Donald,	New York City,	5 E B
Marlin, Ralph Daniels,	Pittsburg, Pa.,	103 P
Matheny, Rodman Charles Ogle,	Springfield, Ill.,	2 W W
Mathews, Edward Nash,	New York City,	8 S W B
Mitchell, Robert Haldane,	Caledonia, N. Y.,	11 S Ed
Peckham, Hildreth Robert,	San Diego, Cal.,	60 P
Perrine, Frank Symmes,	Cranbury, N. J.,	23 L
Pierce, Arthur Jay,	Dundee, N. Y.,	3 S W
Reynolds, Maxwell Kennedy,	Marquette, Mich.,	6 S W B
Rising, Simeon Marshall,	West Pawlet, Vt.,	3 S E B
Salsbury, Joseph Morrison,	Pittsburg, Pa.,	9 B
Seeley, George Percy, Jr.,	Englewood, N. J.,	153 L
Shaner, Charles Heller,	Boyertown, Pa.,	23 L
Sides, William Randolph,	Brooklyn, N. Y.,	3 S E B
Stauffer, Isaac Yost,	Boyertown, Pa.,	17 W W
Strong, Ludlow Potter,	Great Barrington, Mass.,	3 S M R

Tibbott, Frederick Merrill,	Germantown, Pa.,	106 P
Vaughn, Robert,	Stamford, N. Y.,	62 B
Wagner, Edward Luther,	Princeton, N. J.,	31 William St.
Wiess, Harry Carothers,	Beaumont, Tex.,	15 B
Winn, George Philip,	Nashua, N. H.,	3 S Ed

SCHOOL OF SCIENCE JUNIORS.....73

SCHOOL OF SCIENCE SOPHOMORE CLASS

CANDIDATES FOR THE LITT. B. OR B.S. DEGREE

Aitkin, Austin King,	Trenton, N. J.,	68 L
Alexander, James Waddell, II,	New York City,	5 L P
Ames, Miner Thomas, II,	Chicago, Ill.,	82 Nassau St.
Applegate, Robert Ashworth,	Glenosborne, Pa.,	79 U
Bair, Paul Suydam,	Greensburg, Pa.,	63 P
Baldwin, Clarence Truman,	Nyack, N. Y.,	10 N D
Baldwin, Elliott Nelson,	Auburn, N. Y.,	103 B
Barker, Harry Morgan,	Newark, N. J.,	10 Madison St.
Belknap, William Cook,	Albany, N. Y.,	88 Nassau St.
Birkenhauer, Fredrick Waller,	Newark, N. J.,	9 W B
Bissell, William Norton,	West Medford, Mass.,	90 Nassau St.
Brewer, Frank Dodge,	Glen Ridge, N. J.,	132 L
Bruen, Charles Frederick,	Madison, N. J.,	90 Nassau St.
Cannon, Henry White, Jr.,	New York City,	80 P
Carpenter, William Henry, Jr.,	New York City,	31 P
Chamberlain, Cyrus Foss,	Minneapolis, Minn.,	72 L
Cunningham, George Thomas,	Washington, D. C.,	141 L
Davies, Allan,	New York City,	26 M D
Dawson, Frederick Thomas,	New York City,	5 S W
Duane, Richard Bache,	New York City,	11 '79 H
Easton, Mortimer Denison,	Arcola, N. J.,	88 Nassau St.
Entwisle, Robert Morgan,	Johnstown, Pa.,	88 Nassau St.
Ewing, Frank Kinsey,	Georgetown, Conn.,	69 U
Fillius, Richard Sabin,	Denver, Col.,	13 P
Finck, Edgar Moore,	Elizabeth, N. J.,	D, W B
Flammer, William Holzderber,	New York City,	80 Nassau St.
Frantz, Leroy,	New Rochelle, N. Y.,	84 P
Frederick, Halsey Augustus,	Oberlin, O.,	80 Nassau St.
Gault, Matthew, Jr.,	Baltimore, Md.,	51 L

Gibbs, Ralph Wickham,	Norwalk, O.,	138 Nassau St.
Halsey, Woodruff Wendell,	Elizabeth, N. J.,	8 S M R
Hanna, Charles Tibby,	Allegheny, Pa.,	34 B
Hays, Samuel,	Overbrook, Pa.,	152 L
Headley, Hal Price,	Lexington, Ky.,	3 E M W
Jackman, David Kilbourne, Jr.,	Poughkeepsie, N. Y.,	29 Alexander St.
Janeway, Theodore Walser	New Brighton, N. Y.,	13 N M R
Jenkins, Henry Hillen,	Baltimore, Md.,	51 L
Kendrick, Leslie Ray,	Denver, Col.,	13 P
Kettle, John Edward,	New York City,	12 E B
Kirby, Walter Eugene,	New York City,	14 W W
Lee, Howard Albert,	Trenton, N. J.,	10 N D
Livingston, Robert Reginald,	Cheveot, N. Y.,	11 L P
Lyte, Thomas Griffith,	Kane, Pa.,	81 B
McCarthy, Walter Raymond,	Duluth, Minn.,	81 B
McKaig, Donald,	Pittsburg, Pa.,	131 L
McLean, Alan Dater,	Morristown, N. J.,	11 P
Meigs, Robert Rodgers,	South Bethlehem, Pa.,	4 W W
Page, Alanson Sumner,	Oswego, N. Y.,	81 P
Parke, Louis Tarbert,	Philadelphia, Pa.,	31 B
Peacock, Clarence Neilson,	Pittsburg, Pa.,	133 L
Percy, LeRoy Pratt,	Birmingham, Ala.,	10 L P
Prescott, Rufus Alfred,	Keeseville, N. Y.,	88 Nassau St.
Read, Kenneth McKinnon,	Newark, N. J.,	90 Nassau St.
Rodes, Clifton,	Danville, Ky.,	3 E M W
Rolston, Roswell Graves,	New York City,	102 B
Siegling, Rudolph Campbell,	Charleston, S.C.,	182 L
Smith, John Cotton,	Washington, D. C.,	19 M D
Straus, Hugh Grant,	New York City,	4 Nassau Inn
Taylor, John,	New York City,	11 U P
Thibaut, Frank Joseph,	New York City,	33 L
Thompson, John Maurice,	Blairsville, Pa.,	92 B
Townsend, Herbert Pell,	Washington, D. C.,	12 '79 H
Trimble, Rufus James,	Montclair, N. J.,	2 M D
Updegraff, Herbert Heberling,	Pittsburg, Pa.,	20 N W
Vail, John Insley Blair,	Blairstown, N. J.,	115 B
Van Arsdale, Henry, Jr.,	Newark, N. J.,	15 P
Van Dewater, Arthur Franklin,	Flushing, N. Y.,	8 W M W
Ward, Harold Haskins,	Orange, N. J.,	90 Nassau St.
Ward, Walter Lester,	Orange, N. J.,	90 Nassau St.
Warfield, William Smith, III,	Chicago, Ill.,	61 L

Warner, John Russell,	Covington, Ky.,	113 B
Whitman, Edward Bostick,	Woodlawn, S. C.,	2 U P
Wight, Edward Hyatt,	Garrison, Md.,	12 M D
Wilson, Cecil Frederick,	Clearfield, Pa.,	44 B

CANDIDATES FOR THE C. E. DEGREE

Atkinson, Edwin Stanley,	Philadelphia, Pa.,	11 Nassau Inn
Ballin, Cyril Gustav,	New York City,	114 B
Bamman, Frederick Charles,	Princeton, N. J.,	27 Chambers St.
Bancroft, John, Jr.,	Wilmington, Del.,	6 B
Barr, Louis Albert,	Pittsburg, Pa.,	31 L
Baumgartner, Howard Lawrence,	Asbury Park, N. J.,	12 Park St.
Beck, Edgar Russell,	Havana, Cuba,	90 Nassau St.
Bergen, Elston Hunt, Jr.,	Princeton, N. J.,	50 Nassau St.
Bradford, Frank Rumrill,	West Somerville, Mass.,	25 M D
Brady, Frank Aloysius,	Pittsburg, Pa.,	2 M D
Brown, Milton Hay,	Springfield, Ill.,	121 L
Buckingham, Henry Gum,	Memphis, Tenn.,	14 S D
Call, Grant Roscoe,	Bismarck, N. Dak.,	42 S Ed
Carpenter, George Jackson Fisher,	Ossining, N. Y.,	16 B
Causse, Andre Louis, Jr.,	Raleigh, N. C.,	1 W M W
Cosgrave, Louis Dickinson,	Princeton, N. J.,	6 S R
Crowell, James Edgar,	East Orange, N. J.,	90 Nassau St.
Davis, Henry Norman,	Newark, N. J.,	E, Hill
Deford, John Edward,	Baltimore, Md.,	82 Nassau St.
Denniston, Edward Evans,	Germantown, Pa.,	106 P
Donovan, Arthur John,	Detroit, Mich.,	144 Nassau St.
Dusenberry, James Dudley,	Tuckahoe, N. Y.,	22 L
Egner, Carl,	Newark, N. J.,	10 Madison St.
Feigenspan, Edwin Christian,	Newark, N. J.,	101 B
Flanigan, Edwin Brenton,	Wilkes-Barre, Pa.,	115 B
Fox, Edwin Tunnicliffe,	New Rochelle, N. Y.,	11 P
Giffin, John Franklin,	Orange, N. J.,	101 B
Gill, Harold Earle,	Brooklyn, N. Y.,	11 S E B
Gilmour, Hugh Kerr,	Washington, D. C.,	82 Nassau St.
Good, William Pelton,	Westwood, N. J.,	97 B
Grossman, Joseph,	New York City,	19 E W
Haberman, Sylvester,	New York City,	Q, Hill
Hawley, Charles,	Detroit, Mich.,	6 E M W
Hayes, Ralph Victor,	Brooklyn, N. Y.,	19 W W
Heulings, Lloyd,	Moorestown, N. J.,	16 S Ed

Hinrichsen, Arthur Feick,	Newark, N. J.,	8 W B
Hobbie, Archibald Tait,	Newark, N. J.,	13 N W
Horton, Ralph,	New York City,	2 B
Huston, Warren Ayres,	Moorestown, N. J.,	9 S D
Johnson, Alba Boardman, Jr.,	Rosemont, Pa.,	80 Nassau St.
Jones, George Milton,	Oak Hill, W. Va.,	182 L
Kiefer, Ralph Winston,	Bellevue, Pa.	52 L
McAllister, Douglas Holly,	Brooklyn, N. Y.,	42 L
McPherrin, George Robert,	Berkley, Va.,	7 N D
Mierow, Frederick Cramer,	Lakewood, N. J.,	6 N M R
Moore, James Terence,	Elmira, N. Y.,	141 L
Ogle, Kenneth Laurance,	Indianapolis, Ind.,	154 L
Otten, Frederick George,	Brooklyn, N. Y.,	1 W M W
Peacock, John P,	Plainfield, N. J.,	88 Nassau St.
Pitman, Charles Francis,	Trenton, N. J.,	6 S R
Richardson, Edward Jones,	Baltimore, Md.,	112 L
Rodgers, Earle Vincent,	New York City,	5 S W B
Rowe, Reginald Manchester,	Brooklyn, N. Y.,	2 N D
Slocum, Miles Standish,	Havana, Cuba,	116 B
Smith, Irvin Henry,	Sewickley, Pa.,	31 L
Smith, William Palmer, Jr.,	Netherwood, N. J.,	10 U P
Sutton, John Sutton,	Indiana, Pa.,	143 L
Talcott, Wait Forbes,	Rockford, Ill.,	6 B
Terry, Raymond Milton,	Englewood, N. J.,	5 Nassau Inn
Tobey, Harold,	New York City,	22 L
Tracy, William Richmond,	Scranton, Pa.,	183 L
Tregloan, James Homer,	Livingston, Mont.,	7 E M W
Van Valzah, Henry Franklyn,	Clearfield, Pa.,	11 Nassau Inn
Warwick, Winfield Rogers,	Long Branch, N. J.,	168 Nassau St.
Welch, Thomas How,	Saint Paul, Minn.,	2 B
Whitely, George Henry, Jr.,	York, Pa.,	84 P
Whitlock, Willard Palmer, Jr.,	Elizabeth, N. J.,	33 L
Whitman, Walter Lyle,	Philadelphia, Pa.,	80 Nassau St.
Wilcox, Loring Frost,	Reading, Mass.,	4 W B
Williams, Robert Oliver Colt,	Baltimore, Md.,	112 B
Woehr, Isidor Matthew,	Lakewood, N. J.,	4 N M R
Woods, Robert Hall,	Baltimore, Md.,	13 M D

SCHOOL OF SCIENCE SOPHOMORES 146

School of Science Freshman Class

Candidates for the Litt. B. or B. S. Degree

Angell, Montgomery Boynton, Rochester, N.Y., 39 Vandeventer Av.
Bachrach, Arthur Nattans, New York City, 53 Univ. Pl.
Bangs, Felix Francisco, Grand Forks, N. Dak., 42 Wiggins St.
Bard, Roy Emerson, Chicago, Ill., 15 Dickinson St.
Barr, Robert Sherman, East Orange, N. J., 21 M D
Bassett, Noel, New York City, 15 Dickinson St.
Birkhoff, George, III, Chicago, Ill., 90 Nassau St.
Boyd, Austin, Philadelphia, Pa., 31 Univ. Pl.
Bruen, William Walter, Madison, N. J., 45 Univ. Pl.
Bumsted, Roy Remmey, Jersey City, N. J., 47 Univ. Pl.
Carpender, William, II, New Brunswick, N. J.,15 Univ. Pl.
Castle, Edward Stoddard, East Orange, N. J.,29 Vandeventer Av.
Clancy, Edwin Menefee, Louisville, Ky., 15 Univ. Pl.
Conner, Wayne Everett, Sea Bright, N. J., 48 Mercer St.
Cooke, John Sedgwick, Paterson, N. J., 22 Vandeventer Av.
Cooke, Russell, Warren, Ohio, 23 '79 H
Cookingham, Prescott Whitehouse, Portland, Ore., 20 Vandeventer Av.
Craven, Frank Richards, West Chester, Pa., 15 Dickinson St.
Crossman, Peter Frederick, Newark, N. J., Edwards Pl.
Davis, Ansley George, New York City, 15 Univ. Pl.
Deuel, Lake, Omaha, Neb., 37 Wiggins St.
Dick, Kenneth Withington, Chicago, Ill., 111 B
Dixon, Clifford Gordon, Boonton, N. J., 22 Vandeventer Av.
Dyer, Richard Taylor, East Orange, N. J., 45 Univ. Pl.
Eldredge, Ralph Richards, Marquette, Mich., 42 Wiggins St.
Embury, Alfred Bates, Englewood N. J., 172 Nassau St.
Endicott, George, Orange, N. J., 23 Edwards Pl.
Eves, William, III, Wilmington, Del., 36 Wiggins St.
Ewing, Lawrence New York City, 70 U
Fellows, Olin Burt, Middletown, N. Y., 36 Wiggins St.
Flammer, Harold, New York City, 31 Univ. Pl.
Flather, William James, Jr., Washington, D. C., 31 Univ. Pl.
Geddis, Robert Hamilton, Pittsburg, Pa., 44 Vandeventer Av.
Gillon, Wilfred Harton, Brooklyn, N. Y., 16 W W
Gray, Edward, Jr., Newark, N. J., 45 Univ. Pl.
Gray, Harold Reid, New York City, 33 Edwards Pl.

Griffith, Major Dison, Jenkintown, Pa. 5 N Ed
Hamilton, Ferris Fleming, Pittsburg, Pa., 19 Univ. Pl.
Handy, Cortlandt Waite New York City, Edwards Pl.
Harrison, Rufus Freeman, Livingston, N. J., 33 Vandeventer Av.
Hartshorne, Hugh, Jr., Jersey City, N. J., 47 Univ. Pl.
Harvey, Campbell, Detroit, Mich., 18 Madison St.
Harvey, Harold Miller, Grand Rapids, Mich., 29 Vandeventer Av.
Heath, Cuyler, Brooklyn, N. Y., 39 Univ. Pl.
Hodges, Henry Green, Wilmington, Del., 33 N Ed
Holley, Lee Alexander, New York City, 32 Vandeventer Av.
Howe, LeRoy Kent, New York City, 31 Univ. Pl.
Howell, Kenneth Barberie, East Orange, N. J., 22 S Ed
Hughes, Walter Lee, Trenton, N. J., 22 N Ed
Idema, Walter Doomink, Grand Rapids, Mich., 29 Vandeventer Av.
Jamison, Robert Palmer, Greensburg, Pa., 2 Nassau St.
Jessup, Everett Colgate, Brooklyn, N. Y., 4 U
Kammerer, Eugene Hildreth, Chicago, Ill., 76 U
Kiefer, Karl Ziegler, Newark, N. J., 37 Wiggins St.
Kistler, Robert Harrison, Lansford, Pa., 14 N Ed
Lackey, Louis Raymond, Uniontown, Pa., 1 Vandeventer Pl.
Laird, William Malcolm, Pittsburg, Pa., 46 Vandeventer Av.
Lambert, John David Wooster, St. Louis, Mo., 31 Univ. Pl.
Landon, Frank Cone, Winona, Minn., 19 Univ. Pl,
Lane, Martin Donald, Wilmington, Del., 36 Wiggins St.
Larkin, Francis Rahm, New York City, Hill
Lawrence, Charles Cotton, New York City, 31 Univ. Pl.
Libovitz, Barnem, Scranton, Pa., 2 N Ed
Lit, David Jack, Meadowbrook, Pa., 8 E W
Macartney, James Wilkinson, Washington, D. C., 172 Nassau St.
Macdonald, Colin Iselin, Morristown, N. J., 5 L P
Miller, Marshall Philo, Ottumwa, Iowa, 4 S D
O'Donoghue, Florence Joseph, Lowell, Mass., 40 N Ed.
O'Donoghue, Michael Thomas, Lowell, Mass., 37 N Ed.
O'Hara, Edward Arthur, Syracuse, N. Y., 34 Vandeventer Av.
Orbison, Douglas Campbell, Philadelphia, Pa., A, E B
Parke, Samuel Reynolds, Jr., Philadelphia, Pa., 38 U
Payne, Bruce Bullard, Wilkes-Barre, Pa., 15 Univ. Pl.
Penney, Garner West, St. Louis, Mo., 47 Univ. Pl.
Prescott, Roger Baker, Keeseville, N. Y., 15 Univ. Pl.
Prettyman, George William Lyman, Fort Myer, Va., 26 N Ed.
Pruyn, Caspar Lansing, Albany, N. Y., 15 Univ. Pl.
Root, George Frederick, New York City, 15 Univ. Pl.

Rowe, Harold, New York City, Edwards Pl.
Seggermann, Frederick Timpson,, New York City, 31 Univ. Pl.
Sellman, Jonathan Lawrence, Baltimore, Md., 23 Edwards Pl.
Shellito, Judd Campbell, Independence, Iowa, 10 Madison St.
Slaymaker, William Whitmer, New York City, 45 Vandeventer Av.
Sloane, George, New York City, 15 Univ. Pl.
Smith, Percival Cuthbert, Philadelphia, Pa., 37 Wiggins St.
Smith, William Wallace, Clearfield, Pa., 34 Vandeventer Av.
Souder, Donald Malcolm, Overbrook, Pa., 22 Edwards Pl.
Strong, William, Evanston, Ill., 37 Wiggins St.
Talbott, Harvey Sherman, Indianapolis, Ind., Edwards Pl.
Tarbell, Franklin Scott, St. Davids, Pa., 70 U
Thomas, George Comyns, Jr., Elizabeth, N. J., 47 Univ. Pl.
Tilton, Harold Skinner, New York City, 39 Vandeventer Av.
Van Deventer, Joseph Neff, Plainfield, N. J., 35 S Ed.
Walker, James Tyler, Jr., Evansville, Ind., L, Hill
Wallace, Edwin Francis, New York City, 45 U
Wangler, Albert McCreery, Flushing, N. Y., 34 Vandeventer Av.
White, Stephen Vincent, Dorchester, Mass., 3 S Ed.
Whitely, Joseph Osborne, York, Pa., 27 Vandeventer Av.
Wick, Kenneth Bryant, Cleveland, Ohio, 19 Univ. Pl.
Wilkinson, George Ellis, York, Pa., 186 L.
Winant, Clinton Darlington, New York City, 8 U P
Woodhull, Josiah Townsend, Jr., San Antonio, Texas, 39 Vandeventer Av.
Zimmerman, Stanley Snyder, Duncannon, Pa., 19 S W

Candidates for the C. E. Degree

Ashcom, Thomas Lane, Ligonier, Pa., 32 Vandeventer Av.
Baiter, Roland William, New York City, 15 Dickinson St.
Ballou, DeForrest, Jr., Philadelphia, Pa., 23 S Ed
Ballou, Victor, Philadelphia, Pa., 21 P
Bartholomay, Frank Henry, Buffalo, N. Y., 15 Dickinson St.
Bell, Harold Sill, Olean, N. Y., 2 Nassau St.
Bickford, Percy Reeves, Princeton, N. J., 30 Vandeventer Av.
Bonner, Lawrence Kip, New York City, 11 Univ. Pl.
Booth, Alfred Walter, Brooklyn, N. Y., 18 Bank St.
Callery, John Dawson, Pittsburg, Pa., 19 Univ. Pl.
Carlburg, Herbert Gus, Union City, Pa., 37 S Ed.
Childs, William Augustus, Jr., Englewood, N. J., 90 Nassau St.

---

* Died November 21, 1907.

Clark, Charles Edwin, Jr., Philadelphia, Pa., 23 Edwards Pl.
Clark, Theobald Forstall, Philadelphia, Pa., Edwards Pl.
Clough, Charles Clayton, Laconia, N. H., 82 B
Columbia, Curtis Fields, New York City, 32 Wiggins St.
Comey, George Lawrence, Cleveland, Ohio, 11 Univ. Pl.
Cornish, Albert Campbell, Trenton, N. J., 21 N Ed.
Coxe, Francis Travis, Philadelphia, Pa., 33 Edwards Pl.
Craig, Arthur Hegeman, Waldwick, N. J., 15 Univ. Pl.
Creighton, George Watson, Altoona, Pa., 4 E M W
Culbertson, Tingle Woods, Pittsburg, Pa., Hill
Deeves, Edwin Pratt, New York City, 22 Edwards Pl.
Dice, Agnew Thomson, Jr., Reading, Pa., 34 Vendeventer Av.
Dresser, Carl Kirsch, Bradford, Pa., A, Hill
Earle, Harold Baldwin, Newark, N. J., 47 Univ. Pl.
Eaton, Walter Bradley, New York City, 31 Univ. Pl.
Eldredge, Winfield Scott, Cape May, N. J., 168 Nassau St.
Elsworth, Edward, Jr., Buffalo, N. Y., Edwards Pl.
Este, Sydney van Nostrand, Philadelphia, Pa., Edwards Pl.
Evans, Stanley Seelye, New York City, P, Hill
Fell, Harold Bertels, Wilkes-Barre, Pa., 34 Vandeventer, Av.
Fillebrown, Thomas Scott, Washington, D. C., C, Hill
Fish, William Nicholas, Philadelphia, Pa., 33 S Ed.
Gallaher, William Quarrier, Charleston, W. Va., 28 Vandeventer Av.
Getty, Lorenzo Todd, New York City, 15 Dickinson St.
Goff, James Collord, Crafton, Pa., 11 Univ. Pl.
Haaren, Edgar John, New York City, 44 Vandeventer Av.
Hay, John Lewis, Jr., Newark, N. J., 45 Univ. Pl.
Heacock, Clarence Joseph, Gloversville, N. Y., 29 Vandeventer Av.
Helm, William Lloyd, Ossining, N. Y., Hill
Hentz, Frederick Walter, Philadelphia, Pa., 27 Vandeventer Av.
Heyl, Edward Randolph, Washington, D. C., C, Hill
Hoffstot, John Gideon, New York City, Hill
Humbird, John Alexander, Spokane, Wash., 172 Nassau St.
Humiston, William Taylor, Cleveland, Ohio, 15 Univ. Pl.
Humphrey, Karl, Providence, R. I., I, Hill
John, Robert Randall, Wayne, Pa., 4 E M W
Jones, Spencer Ainsworth, Belleville, N. J., 28 S Ed.
Kreutzberg, Edgar William Charles, Trenton, N. J., 20 N Ed.
Lewis, Philemon Stout, Springfield, Ill., 11 Univ. Pl.
Macgregor, Alexander, Roxbury, Mass., 41 S Ed.
Mack, Paul Wilmer, Indiana, Pa., 37 Wiggins St.
McLean, Archibald, III, Brooklyn, N. Y., 36 N Ed.

McLeod, Donald Mather, Germantown, Pa., F, Hill
Marlor, Charles Christman, Port Richmond, N. Y., 33 U
Mayers, Edward Charles, New York City, 44 Vandeventer Av.
Moffat, John Wise, Montclair, N. J., 32 Vandeventer Av.
Nason, Noah, Westboro, Mass., Edwards Pl.
Osborne, Horace Bond, Newark, N. J., 33 Vandeventer Av.
Parker, Myron Melvin, Jr., Washington, D. C., 19 Univ. Pl.
Perry, Franklin, Newtown, N. Y., 32 Wiggins St.
Porter, Guy Jonathan, Newton, Mass., 28 N Ed.
Prince, Edmond Lafayette, Jr., Wilmington, N. C., O, Hill
Ransome, Percy Allen, Tompkinsville, N. Y., 42 Wiggins St.
Reilly, Charles Gilbert, Pittsburg, Pa., 19 Univ. Pl.
Rheinstein, Alfred, New York City, 82 B
Robbins, Edward Hanmer, Lee, Mass., 1 Vandeventer Pl.
Roche, Robert Thiery, East Orange, N. J., 29 Vandeventer Av.
Ross, Thomas Gillespie, Asbury Park, N. J., 12 Park Pl.
Rowland, James Harvey, II, Baltimore, Md., Edwards Pl.
Schauffler, Henry Robert, New York City, 24 M D
Schoonmaker, James Martinus, Jr., Pittsburg, Pa., L, Hill
Serfas, Lloyd Clarence, Effort, Pa., 10 S M R
Sill, Theodore Winthrop, East Orange, N. J., 53 Univ. Pl.
Smith, Carteret Lawrence, Smithtown, N. Y., 39 Univ. Pl.
Smith, Harry Barnett, Sedalia, Mo., 47 Univ. Pl.
Smith, Lawrence Breese, Netherwood, N. J., 19 Univ. Pl.
Smith, Robert Hall, Jr., Aberdeen, Md., 60 Univ. Pl.
Sparks, Walter Russell, Philadelphia, Pa., Hill
Spicer, Allen Wood, New York City, 73 U
Stewart, Frederick Warren, Pensacola, Fla., 39 Nassau St.
Stewart, Louis, Jr., New York City, Hill
Taggart, William Louis, Indianapolis, Ind., 39 Vandeventer Av.
Taylor, Alan Kirk, Brownsville, Pa., 2 Nassau St.
Tobias, George Henry, Brooklyn, N. Y., 22 Edwards Pl.
Valentine, Richard Henry, Stafford Springs, Conn., 4 S W
Wardwell, Edward Howland, New York City, 33 Edwards Pl.
Waterman, William Bullock, Providence, R. I., 15 Univ. Pl.
White, William Donaldson, Jr., Duluth, Minn., 19 Univ. Pl.
Whitney, William Minot, III, Rye, N. Y. 23 Edwards Pl.
Wilken, Benjamin Ogden, Port Chester, N. Y., 34 Vandeventer Av.
Williams, George Robinson, Philadelphia, Pa., 53 Univ. Pl.

SCHOOL OF SCIENCE FRESHMEN.....196

Students Qualifying for Regular Standing

Atkinson, Thomas, Jr., Gordonsville, Va., 7 U P
Aymar, John Wentworth, Jr., Springfield, Ill., 172 Nassau St.
Barber, Harold McConnell, Wauscon, Ohio, 47 U
Baum, James Edwin, Omaha, Neb., 143 L
Bennett, Ira Fuller, Chicago, Ill., 76 U
Bishop, Harry William, Chicago, Ill., 50 P
Bredemus, John, South Bend, Ind., 16 N Ed.
Buzby, Arthur Dudley, New York City, 47 U
Clearwater, William Hoffman, Elmhurst, N. Y., 39 Vandeventer Av.
Cook, Norman William, Indianapolis, Ind., B, Hill
Cooke, Claude Hanbury, St. Louis, Mo., 14 N W
Couse, Henry, Hancock, N. Y., 18 S W
Creecy, Donald Brook. Ilchester, Md., 34 Vandeventer Av.
Crittenden, John Dozier, Kansas City, Mo., 39 Univ. Pl.
Cunningham, Logan, Washington, D. C., 60 Univ. Pl.
Driver, Clarence Wike, Philadelphia, Pa., 5 S M R
Edgar, Joseph Charles, Lincoln, Neb., 33 Edwards Pl.
Elder, Frank Ray, Monmouth, Ill., 7 Park Pl.
Ferger, Henri Rabb, Chattanooga, Tenn., 45 Vandeventer Av.
Field, James Thomas, Ashland, Ky., 19 Bank St.
Garrett, Guy Harper, Reinersville, Ohio, 34 S Ed.
Hazard, Erskine, Richmond, Va., 12 W B
Helm, John Blakey, Auburn, Ky., 10 Madison St.
Iguchi, Sei, Tokyo, Japan, 46 Vandeventer Av.
Imhoff, Richard Hudson, Hopewell, N. J., 16 Bank St.
Jones, Carl Waring, Minneapolis, Minn., 53 Univ. Pl.
Jones, Murray Brasher, Houston, Texas, 66 L
Kase, Harry Winfield, Newark, N. J., 10 P
Love, William Iverson, Nashville, Tenn., 18 W W
McCrohan, John, Newport, R. I., 17 S M R
Maher, Arthur Paul, Roanoke, Va., 164 Nassau St.
Messler, Daniel Ivins, Hightstown, N. J., 17 Bank St.
Morrison, Donald Ambrose, Indianapolis, Ind., B, Hill
Overholt, John D, Wooster, Ohio, 15 L
Peckham, Paul Tyler, Westfield, N. J., 23 M D
Pinckard, Peter McArthur, Birmingham, Ala., 19 Univ. Pl.
Ralph, Henry William, Jamaica, N. Y., 20 N W
Rankin, Marquis Kemper, South Charleston, Ohio, 47 U
Rendall, James Hawley, Lincoln Univ., Pa., 62 U

Rhodes, James Rutherford,	Newton, Iowa,	7 Park Pl.
Rice, Ralph Waldo,	Chicago, Ill.,	112 L
Richardson, Norman Dayton,	New York City,	18 E W
Rochester, William,	Whitestone, N. Y.,	45 Univ. Pl.
Rockwell, Samuel, Jr.,	Cleveland, Ohio,	8 S E B
Scully, Rees Townsend,	Pittsburg, Pa.,	1 U P
Smith, James Turner Roper,	Madison, N. J.,	72 L
Smith, Rollin Leonard,	Minneapolis, Minn.,	11 Alexander St.
Spelman, Walter Bishop,	Champlain, N. Y.,	60 Univ. Pl.
Stafford, Fred Montague Aikins,	Montreal, Canada,	25 P
Stewart, William,	Kirkwood, Pa.,	3 S W
Tyson, Frederic Hunter,	Glen Ridge, N. J.,	20 W W
Van Dyke, Arthur Gordon,	Princeton, N. J.,	5 S D
Watson, Philip Jay, Jr.,	New Castle, Pa.,	168 Nassau St.
Wright, Charles Green,	New York City,	11 U
Zimmer, Harry Edgar, Jr.,	Indianapolis, Ind.,	154 L

STUDENTS QUALIFYING FOR REGULAR STANDING.....55

Special Students

Not Candidates for a Degree

Adams, Winfred Cooper,	Corinth, Miss.,	14 S D
Bell, Eugene Byron,	Kansas City, Mo.,	Hill
Darling, Chester Coburn,	Providence, R. I.,	11 '79 H
Ferguson, George Orme,	Brookline, Mass.,	36 P
Hackett, George Dunbar,	Pittsburg, Pa.,	5 E M W
Harrison, George Alexander,	Pittsburg, Pa.,	102 P
Haven, William Le Roy, Jr.,	Morristown, N. J.,	1 S W B
Leas, Donald Stewart,	Philadelphia, Pa.,	185 L
Mahn, Bertram Raymond,	Philadelphia, Pa.,	7 N Ed
Olds, Donald Smith,	Lansing, Mich.,	88 Nassau St.
Scott, Lewis Merrill,	West Point, N. Y.,	56 Bayard Lane

Specials..... 11

GENERAL SUMMARY

Officers of Instruction and Administration

Trustees,	31
Faculty and Instructors,	163
University Officers and Curators,	26

Students

Graduate School		
Fellows,	20	
Graduate Students,	93	
		113
Academic Department		
Senior Class,	186	
Junior Class,	194	
Sophomore Class,	135	
Freshman Class,	132	
		647
John C. Green School of Science		
Electrical School,	5	
Senior Class,	55	
Junior Class,	73	
Sophomore Class,	146	
Freshman Class,	196	
		475
Students Qualifying for Regular Standing,		55
Special Students,		11
Total for the year 1907–1908,		1301

SUMMARY OF STUDENTS BY STATES

Pennsylvania,	297	California,	4
New York,	291	Montana,	4
New Jersey,	280	Oregon,	4
Maryland,	42	Utah,	4
Illinois,	40	Georgia,	3
Ohio,	39	Mississippi,	3
Massachusetts,	29	New Hampshire,	3
District of Columbia,	21	North Dakota,	3
Indiana,	21	West Virginia,	3
Kentucky,	17	Arkansas,	2
Missouri,	15	Vermont,	2
Michigan,	14	Washington,	2
Connecticut,	13	Idaho,	1
Minnesota,	13	Kansas,	1
Colorado,	11	Louisiana,	1
Delaware,	11	Porto Rico,	1
Iowa,	11	South Dakota,	1
Virginia,	11		
Nebraska,	10	Japan,	7
Tennessee,	10	British Isles,	4
Texas,	10	Cuba,	3
Alabama,	6	Canada,	2
Rhode Island,	6	Brazil,	1
South Carolina,	6	Ceylon,	1
Florida,	5	Mexico,	1
North Carolina,	5	Turkey,	1
Wisconsin,	5		
		Total,	1301

ABBREVIATIONS

A S, Alexander Hall, Seminary.
B, Blair Hall.
B S, Brown Hall, Seminary.
E B, East Entry, David Brown Hall.
E M W, East Middle Entry, Witherspoon Hall.
E W, East Entry, Witherspoon Hall.
H S, Hodge Hall, Seminary.
L, Stafford Little Hall.
L P, Lower Pyne Building.
M D, Middle Entry, Albert B. Dod Hall.
N, Nassau Hall.
N D, North Entry, Albert B. Dod Hall.
N Ed, North Entry, Edwards Hall.
N M R, North Middle Entry, Reunion Hall.
N R, North Entry, Reunion Hall.
N W, North Entry, West College.
P, Patton Hall.
S D, South Entry, Albert B. Dod Hall.
S E B, South East Entry, David Brown Hall.
S Ed, South Entry, Edwards Hall.
S M R, South Middle Entry, Reunion Hall.
S R, South Entry, Reunion Hall.
S W, South Entry, West College.
S W B, South West Entry, David Brown Hall.
U, University Hall.
U P, Upper Pyne Building.
W B, West Entry, David Brown Hall.
W M W, West Middle Entry, Witherspoon Hall.
W W, West Entry, Witherspoon Hall.
'79 H, Seventy-nine Hall.

DIRECTORY

OF OFFICERS AND STUDENTS IN ALL DEPARTMENTS OF THE UNIVERSITY

The name of every officer is printed in SMALL CAPITALS.

The names of students are followed by the designation of their several classes (f, Fellow; g, Graduate Student; Sr., Senior; Jr., Junior; So., Sophomore; Fr., Freshman; q, Student qualifying for Regular Standing; Sp., Special Student); the name of each student is followed also by an abbreviation indicating the department to which he belongs, viz., *a*, Academic Department; *s*, The John C. Green School of Science; *e*, The School of Electrical Engineering.

The abbreviations of the residences of officers and students are found on a preceding page.

Abbotts, W., Jr., *Fr. a* 35 N Ed
Ackerson, F. L., *Jr. s* 12 W B
Adams, C. E., *Jr. a* 6 N D
ADAMS, E. P., *Ass't Professor*, 12 Nassau St.
Adams, W. C., *Sp.* 14 S D
ADRIANCE, W. M., *Preceptor*, Fitz Randolph Rd.
Aitkin, A. K., *So. s* 68 L
Alexander, J. P., *Sr. a* 9 S W B
ALEXANDER, J. W., *Trustee*, New York City
Alexander, J. W., II, *So. s* 5 L P
Allen, F. B., *g* 11 A S
Allison, J. M., *So. a* 1 L P
Ames, M. T., II, *So. s* 82 Nassau St.
Amos, W. H., *g* 11 Alexander St.
ANDERSON, A. R., *Preceptor*, 35 Bank St.
Andrews, E. R., *Sr. a* 10 E B
Angell, M. B., *Fr. s* 39 Vandeventer Av.
Angus, H. B., *g* 309 H S
Ankeney, F. N., *Jr. a* 3 E B
Annin, R. E., Jr., *Jr. a* 8 S W
Applegate, R. A., *So. s* 79 U
Armour, N., *Jr. a* 184 L
Armstrong, G. A., *Jr. a* 7 L P
Arnett, W. W., Jr., *Jr. s* 101 P
Arnold, N. N., *Fr. a* 2 S Ed
Ashcom, T. L., *Fr. s* 32 Vandeventer Av.
Atkinson, E. S., *So. q* 11 Nassau Inn
Atkinson, T., Jr., 7 U P
Atlee, J. C., *Sr. a* 24 B
Austin, W. M., *Sr. a* 7 S M R
AXSON, S., *Professor*, 10 Nassau St.
Aymar, J. W., *Jr. q* 172 Nassau St.
Ayres, T. G., *Fr. a* Hill

Bachrach, A. N., *Fr. s* 53 Univ. Pl.
Bair, P. S., *So. s* 63 P
Baiter, R. W., *Fr. s* 15 Dickinson St.
Baker, E. W., *Sr. a* 3 W M W

Baker, W. E., Jr., *Jr. s* 93 P
Baldinger, G. W., *g* 43 B S
Baldwin, C. T., *So. s* 10 N D
Baldwin, E. N., *So. s* 103 B
Ballin, C. G., *So. s* 114 B
Ballin, D. D., *Jr. a* 3 S W B
Ballou, DeF., Jr., *Fr. s* 21 P
Bamberger, J. M., *So. a* 12 W W
Bament, L. M., *Fr. a* 20 M D
Bamman, F. C., *So. s*
27 Chambers St.
Bancroft, J., Jr., *So. s* 6 B
Bane, W. M., *Sr. s* 33 '79 H
Bangs, F. F., *Fr. s* 42 Wiggins St.
Banning, E., Jr., *Sr. a* 7 M D
Barbee, R. S., *g.*
Barber, H. McC., *q* 47 U
Barchfeld, E. A., *Jr. a* 16 M D
Bard, R. E., *Fr. s*
15 Dickinson St.
Bardsley, W. W., *Fr. a* 15 W W
Barker, H. M., *So. s*
10 Madison St.
Barr, L. A., *So. s* 31 L
Barr, R. S., *Fr. s* 21 M D
Barrett, H. C., *Sr. a* 181 L
BARRETT, L. C., *Preceptor,*
37 Nassau St.
Barrows, W. L., *g* 14 Park St.
Bartholomay, F. H., *Fr. s*
15 Dickinson St.
Barton, L. G., Jr., *Sr. a* 3 M D
Baskerville, C. E., *g* 205 H S
BASORE, J. W., *Preceptor,*
26 Bank St.
Bassett, N., *Fr. s*
15 Dickinson St.
Bates, H. E., *So. a* 1 Nassau Inn
Baum, J. E., *q* 143 L
Baumgartner, H. L., *So. s*
12 Park St.
Baxter, E. B., *g* 168 Nassau St
Beam, J. C., Jr., *s* 86 Nassau St.
BEAM, J. N., *Preceptor,*
52 Bayard Lane
Beck, E. R., *So. s* 90 Nassau St.
Beckwith, E. W., *Jr. s* 14 '79 H
Belknap, W. C., *So. s*
88 Nassau St.
Bell, E. B., *Sp.* Hill
Bell, H. S., *Fr. s* 2 Nassau St.
Bell, J. A., Jr., *Sr. a* A, B
Benedict, H. W., *Jr. a* 7 Park Pl.
Bennett, I. F., *q* 76 U
Bentley, F. R., *Fr. a* 14 S Ed
Benton, D. C., *So. a* 61 L
Bergen, E. H., Jr., *So. s*
50 Nassau St.
Berghaus, C. E., *Sr. a* C, E B
Bergin, F. S., *So. a* 82 Nassau St.
Bergland, W. S., *Sr. s* 7 U
Berry, A. D., *Fr. a*
33 Edwards Pl
Berry, A. H., *Jr. s* 7 W B
Bickford, J. D., *Fr. a* 5 E W
Bickford, P. R., *Fr. s*
30 Vandeventer Av.
Biddle, C. J., *Fr. a* Edwards Pl.
Bingley, A. G., *So. a*
16 Nassau Inn
Birkenhauer, F. W., *So. s* 9 W B
Birkhoff, G., III, *Fr. s*
90 Nassau St.
Bishop, H. W., *q* 50 P
Bishop, J. V., *Sr. s* 7 B
Bissell, W. N., *So. s*
90 Nassau St.
Black, H. C, *Jr. a* 23 P
Black, R. F., *Fr. a*
34 Vandeventer Av.
Blackstone, A. R., *Fr. a*
Murray-Dodge
BLAIR, D. C., *Trustee,*
Belvidere, N. J.
Blatchford, W. W., Jr., *Sr. a*
37 Wiggins St.
BLAU, M. F., *Ass't Professor,*
27 Bank St.
BLISS, G. A., *Preceptor,*
35 Bank St.
Blodgett, W. N., *Jr. s* 7 N R
Blun, F. M., *Jr. a* 42 L
Boas, H. A., *Jr. a* 122 L
Bockoven, F. H., *Sr. s* 3 W W
BOGART, E. L., *Preceptor,*
11 Bank St.
Boice, A. D., *Jr. a* 64 L
Bonner, D., Jr., *Jr. s* 1 W B
Bonner, L. K., *Fr. s* 11 Univ. Pl.
Bonner, W. D., *g* 14 Park St.
Booker, L. H., *Jr. a* 71 P
Booth, A. E., *Jr. s* 12 S W B
Booth, A. W., *Fr. s* 18 Bank St.
Bothwell, E. G., *Jr. s* 34 B
Boyd, A., *Fr. s* 31 Univ. Pl.
Boyd, J., Jr., *So. a* 31 '79 H

Boyd, J. F., Jr., *Jr. s* 34 '79 H
Boynton, F. L., *Sr. a* 11 S D
BRACKETT, C. F., *Professor*, 4 Prospect Av.
Braddock, W. H., *Sr. a* 23 M D
Bradford, F. R., *So. s* 25 M D
Brady, F. A., *So. s* 2 M D
Brady, S. S., *Jr. a* 63 '79 H
Braskamp, O., *g* 7 B S
Bready, G. S., *g* 37 A S
Bredemus, J., *q* 16 N Ed
Breese, J. L., Jr., *Jr. s* 162 L
Brennan, E. A., *Sr. a* 9 E M W
Brewer, F. D., *So. s* 132 L
Brook, C., *Sr. a* Ewing St.
Brooks, S. B., *So. a* 12 '79 H
Brown, F. C., *g* 19 Bank St.
BROWN, G. D., *Instructor*, 17 Alexander St.
Brown, G. M., *Sr. a* 85 P
Brown, M. H., *So. s* 121 L
Brown, R. M., *Sr. a* 41 '79 H
Broy, C. C., *g* 19 Madison St.
Bruce, J. M. H., *Sr. a* 21 '79 H
Bruen, C. F., *So. s* 90 Nassau St.
Bruen, W. W., *Fr. s* 45 Univ. Pl.
Brush, J. C., *Jr. s* 3 S W B
Buchanan, H. H., *Fr. a* 12 Park St.
Buchanan, J. G., *Jr. a* 91 P
Buckingham, H. G., *So. s* 14 S D
Budd, D. S., *Jr. s* 3 W W
BUFFUM, D. L., *Preceptor*, 107 Alexander St.
Bumsted, R. R., *Fr. s* 47 Univ. Pl.
Bunn, B. F., *g* 14 Park St.
BUNN, H. C., *Curator*, University Offices
Bunting, A. R., *Jr. a* 83 P
Burk, C. A. D., *Jr. s* 3 B
Burk, E. H., *Jr. s* 42 B
Burnett, C. H., *Jr. a* 32 B
BURNHAM, C. E., *Choirmaster*, 24 Mercer St.
Burr, H. C., *Fr. a* H, U
BURT, M. S., *Instructor*, Merwick
Butler, C. M., *So. a* 31 B
BUTLER, H. C., *Professor*, Merwick
Butler, L. C., *So. a* 161 L
Butler, L. L., *Sr. a* 168 Nassau St.
Butler, W. A., III, *Jr. a* 7 L P
Butts, A., Jr., *Fr. a* 32 Vandeventer Av.
Buzby, A. D., *q* 47 U

CADWALADER, J. W., *Trustee*, New York City
Cadwell, P. N., *So. a* 16 Nassau Inn
Cahill, W. L., *So. a* 172 L
Caldwell, H. S., *Jr. a* 83 P
Call, G. R., *So. s* 42 S Ed
Callery, J. D., *Fr. s* 19 Univ. Pl.
Calverley, E. E., *g* 44 A S
CAMERON, D., *Preceptor*, 27 William St.
Cameron, M. K., *Sr. a* 11 S R
Cameron, W. R., *Jr. a* 17 M D
Camp, S. F., *So. a* 11 S E B
Campbell, D. R., *g* 43 U
Campbell, M. A., *Jr. s* 75 B S
Campbell, S., *So. a* 10 E M W
Cannon, H. W., Jr., *So. s* 80 P
Cappeau, J. P., Jr., *Sr. s* 96 B
CAPPS, E., *Professor*, 36 Mercer St.
Carey, C. D., *Sr. a* 20 S Ed
Carey, J. J., *Fr. a* 45 U
Carlburg, H. G., *Fr. s* 37 S Ed
Carpender, W., II, *Fr. s* 15 Univ. Pl.
Carpenter, F. R., *Jr. a* 2 S E B
Carpenter, G. J. F., *So. s* 16 B
Carpenter, W. H., Jr., *So. s* 31 P
Carr, B. J., *Jr. a* 168 Nassau St.
Carroll, N. F., *Jr. a* 72 B
Carter, J. L., *So. a* 44 L
Carter, R. L., *Fr. a* 39 Univ. Pl.
Carton, L. R., *Sr. a* 13 '79 H
Carver, W. H., *Jr. a* 34 Vandeventer Av.
Case, E. DeF., *Sr. s* 40 P
Cass, N. R., *Jr. a* 5 E B
Castle, E. S., *Fr. s* 29 Vandeventer Av.
Catlin, R., *Sr. a* 11 E B
Causse, A. L., Jr., *So. s* 1 W M W
Chalmers, A. R., *Sr. a* 1 M D
Chamberlain, C. F., *So. s* 72 L
Chambers, B. B., *Jr. a* 14 S M R
Chambers, J. W., *Jr. a* 15 N M R
Champlin, C. D., *Sr. s* 20 P
Chaplin, H., *Jr. a* 171 L

Chapman, J. L., *Jr. s* 98 B
Chapman, P. A., *Jr. a* 6 S W B
Chase, J. W., *g* 38 B S
Childs, W. A., Jr., *Fr. s*
90 Nassau St.
Chisholm, C. S., *Jr. a*
98 Mercer St.
Chisolm, J. J., *Fr. a* 17 E W
Christie, R. D., *Sr. a* 14 M D
Christy, T. B., *Fr. a* 11 Univ. Pl.
Cist, C. F., *Jr. a* 30 P
Clancy, E. M., *Fr. s* 15 Univ. Pl.
Clark, A. B., *Fr. a* 156 Nassau St.
Clark, C. E., Jr., *Fr. s*
23 Edwards Pl.
Clark, D. H., *Sr. s* 11 N D
CLARK, H. N., *Instructor*, 9 S Ed
Clark, J. H., Jr., *Jr. a* 6 S W
Clark, M. B., *Sr. s* 22 P
Clark, T. F., *Fr. s* Edwards Pl.
Clark, T. S., *Sr. a* 1 S M R
Clark, W., Jr., *Sr. s* 44 '79 H
Clarke, A. V., *Jr. s* 13 S D
Clarke, E. H., Jr., *So. a* P, U
Clearwater, W. H., *q*
39 Vandeventer Av.
CLEMONS, W. H., *Instructor*,
4 E W
CLEVELAND, GROVER, *Trustee*,
38 Bayard Lane
Cleveland, S. M., *Fr. a*
28 Vandeventer Av.
CLOSE, G. F., *Sec. to the Pres., and g* 43 '79 H
Close, H. W., *So. a* 17 S W
Clothier, R. C., *Sr. a* 185 L
Clough, C. C., *Fr. s* 82 B
COAN, W. J., *Proctor*, 2 N M R
Cochran, T. D., *Fr. a*
34 Vandeventer Av.
Colborn, A. J., *Jr. a* 9 E B
COLLINS, V. L., *Preceptor*,
31 Bank St.
Collord, J. H., *Fr. a* 7 S W B
Columbia, C. F., *Fr. s*
32 Wiggins St.
Colver, F. B., *So. a* 6 W M W
Colvin, W. H., *Sr. a* 61 B
Comey, G. L., *Fr. s* 11 Univ. Pl.
CONEY, J. H., *Professor*,
78 Alexander St.
Conger, A. McC., *Jr. a* 4 N D
Conger, R. S., *So. a* 5 N D
Connelly, M. S., *Fr. a* 35 S Ed
Conner, G. R., *F. a*
46 Vandeventer Av.
Conner, W. E., *Fr. s* 48 Mercer St.
Connett, F. S., *Jr. a* 14 P
Connor, F. A., *g* 19 Madison St.
Connors, W. B., *Sr. a* 61 B
Conwell, G. M., *g* 9 S M R
Cook, C. F., *g* Merwick
Cook, J. A., *Jr. a* 8 S W
Cook, N. W., *q* B, Hill
Cooke, C. H., *q* 14 N W
COOKE, H. L., *Ass't Professor*,
12 Nassau St.
Cooke, J. S., *Fr. s*
22 Vandeventer Av.
Cooke, R., *Fr. s* 23 '79 H
Cookingham, P. W., *Fr. s*
20 Vandeventer Av.
Coons, J. C. *Sr. a* 3 S R
Cooper, J. C., Jr., *Jr. a*
31 Nassau St.
Corbin, H. K., *Sr. a* 43 L
Cornish, A. C., *Fr. s* 21 N Ed
CORNWALL, H. B., *Professor*,
12 Morven St.
Cornwell, G. G., *Sr. s* 16 E W
Corum, J. M., Jr., *g* 23 B S
CORWIN, E. S., *Preceptor*, 8 W W
CORY, W. E., *Instructor*, 8 S Ed
COSGRAVE, J. S., *Ass't to the Treasurer*, University Offices
Cosgrave, L. D., *So. s* 6 N R
COTTRELL, W. R., *Organist*,
1 Nassau St.
Coulter, C. B., *g* Merwick
Couse, H., *q* 18 S W
COVINGTON, H. F., *Ass't Professor*, 34 Edgehill St.
Cowan, J. D., *Sr. s* 5 W M W
Coxe, C. S., *Jr. a* 52 '79 H
Coxe, F. T., *Fr. s* 33 Edwards Pl.
Coyle, D. C., *Sr. a* 4 S R
Craig, A. H., *Fr. s* 15 Univ. Pl.
CRAIG, H., *Preceptor*, 52 Univ. Pl.
Crane, T., *Sr. s* 46 L
Crary, D., *Sr. a* 4 M D
CRAVEN, E. R., *Trustee*,
Philadelphia, Pa.
Craven, F. R., *Fr. s*
15 Dickinson St.
Craven, T. S., *Jr. a* 5 S M R
Crawford, E., *Fr. a* 18 M D

Crawford, S. L., *Sr. a* 14 B
Creecy, D. B., *q*
34 Vandeventer Av.
Creighton, G. W., *Fr. s* 4 E M W
Critchlow, F. B., *So. a*
144 Nassau St.
CRITCHLOW, F. L., *Preceptor*,
8 N W
Critchlow, G. A., *Fr. a*
46 Vandeventer Av.
Crittenden, J. D., *q* 39 Univ. Pl.
CROLL, M. W., *Preceptor*, 53 P
Crosby, W. F., *Jr. s* 6 Nassau Inn
Crossman, P. F., *Fr. s*
Edwards Pl.
Crowell, J. E., *So. s* 90 Nassau St.
Culbertson, T. W., *Fr. s* Hill
Cummings, H. M., *g* 29 N Ed
Cummings, L. C., *Sr. a* 21 P
Cunningham, F. L., *Jr. a* 12 U
Cunningham, F. W., *e* 3 N Ed
Cunningham, G. T., *So. s* 141 L
Cunningham, L., *q* 60 Univ. Pl.
CUYLER, C. C., *Trustee*,
New York City

DAHLGREN, U., *Ass't Professor*,
7 Evelyn Pl.
DAIN, N., *Instructor*, Cannon Club
Dale, J. K., *Fr. a* 39 Univ. Pl.
Dale, LeR. E., *S. s* 24 L
Daniel, Z., *Sr. s* 7 S Ed
DANIELS, W. M. *Professor*,
210 Mercer St.
Darling, C. C., *Sp.* 11 '79 H
Darlington, C. P., *So. a* 2 L P
Daub, J. J., *Fr. a* 39 Univ. Pl.
Davey, W. O., *Sr. a* 51 P
Davidson, W. J., *Sr. s* 35 L
Davies, A., *So. s* 26 M D
Davis, A. G., *Fr. s* 15 Univ. Pl.
Davis, C. K., *g* 406 H S
Davis, H. N., *So. s* E, Hill
DAVIS, J. D., *Trustee*,
St. Louis, Mo.
Davis, O. L., *Sr. s* 13 B
DAVISSON, C. J., *Instructor*,
5 Nassau St.
Dawbarn, W. L., *Jr. a* 116 B
DAWSON, E., *Preceptor*,
Broadmead
Dawson, F. T., *So. s* 5 S W

Deeves, E. P., *Fr. s*
22 Edwards Pl.
Deford, J. E., *So. s*
82 Nassau St.
Dennis, C. M., *Jr. s*
38 Wiggins St.
Dennis, J. S., II, *So. a* 32 P
Denniston, E. E., *So. s* 100 P
Deuel, L., *Fr. s* 37 Wiggins St.
DEWITT, J., *Trustee*, 31 Library Pl.
Dice, A. T., Jr., *Fr. s*
34 Vandeventer Av.
Dick, H. K., *Jr. a* 9 E B
Dick, K. W., *Fr. s* 111 B
Dickey, W. D., *Fr. a* 15 Univ. Pl.
Dickinson, C. R., *Jr. a* 104 B
Diehl, J. M., *g* 6 A S
Dietrich, H. E., *Jr. a* 8 M D
Dillon, E. A., *Jr. a* 3 L P
Dillon, E. S., *Fr. a* 4 S E B
Disbrow, H. B., *Fr. a*
30 Mercer St.
Dixon, C. G., *Fr. s*
22 Vandeventer Av.
Dixon, F-E., *Jr. a* 22 '79 H
DIXON, J., *Trustee*, Trenton, N. J.
Dodd, E. M., *Jr. a* 9 S W
Dodge, B., *Jr. a* 64 '79 H
Dodge, C. E., *Jr. a* 64 '79 H
DODGE, C. H., *Trustee*,
New York City
Dodge, D. D., *So. a* 14 U P
Dolph, H. W., *Jr. s* 72 B
Dolph, S. E., *Sr. s* 7 U
Donovan, A. J., *So. s*
144 Nassau St.
Donovan, H. J., *Sr. a* 5 N W
Dougherty, E. V., Jr., *Jr. a*
52 '79 H
Dowd, H. L., *Jr. a* 171 L
Drayton, E. M., *Sr. a* 6 U P
Dresser, C. K., *Fr. s* A, Hill
Drewes, H., *Jr. a* 4 S M R
Driver, C. W., *q* 5 S M R
Duane, R. B., *So. s* 11 '79 H
DuBois, H. P., *g* Merwick
Duff, G. M., *g* Murray-Dodge Hall
Duff, M. F., *Sr. s* 11 N W
DUFFIELD, H. G., *Treasurer*,
University Offices
Duffield, M. B., *Fr. a* 11 Univ. Pl.
DUGAN, R. S., *Instructor*,
14 Prospect Av.

Dulles, J. F., *Sr. a* 163 L
Dunham, C. T., *Sr. a* 4 S W
Dunlop, W. G., *Jr. s* 9 B
Dunn, W. P., *Sr. a* 1 S W
Durstine, R. S., *Sr. a* 33 P
DUSCHAK, L. H., *Instructor*, 14 Park Pl.
Dusenberry, J. D., *So. s* 22 L
Dwight, M., *Fr. a* 15 Dickinson St.
Dyer, R. T., *Fr. s* 45 Univ. Pl.

Eadie, J. S., Jr., *So. a* 2 S W B
Earle, F., *Jr. s* 41 B
Earle, H. B., *Fr. s* 47 Univ. Pl.
Easton, M. D., *So. s* 88 Nassau St.
Eaton, W. B., *Fr. s* 31 Univ. Pl.
Ebert, St. G., *Sr. s* 38 L
Eddy, W. W., *Fr. a* 12 N Ed
Edgar, J. C., *q* 33 Edwards Pl.
Efros, J. S., *So. a* 10 Witherspoon St.
Egner, C., *So. s* 10 Madison St.
Ehrehart, C. F., *Jr. a* 12 N M R
EISENHART, L. P., *Preceptor* 63 L
Elder, F. R., *q* 7 Park Pl.
Elder, R. D., *Fr. a* 36 Wiggins St.
Eldredge, R. R., *Fr. s* 42 Wiggins St.
Eldredge, W. S., *Fr. s* 168 Nassau St.
ELLIOTT, E. G., *Preceptor*, 16 S W
Elliott. H. W., *Sr. a* 2 S D
Elsing, W., *Sr. a* 6 M D
Elsworth, E., Jr., *Fr. s* Edwards Pl.
Elwood, V. N., *Sr. a* 2 W M W
Ely, M. L., *Fr. a* 15 N W
Embury, A. B., *Fr. s* 172 Nassau St.
Emery, J. M., *So. a* 44 B
Endicott, G., *Fr. s* 23 Edwards Pl.
Entwisle, R. M., *So. s* 88 Nassau St.
Este, J. D., *Jr. s* 9 M D
Este, S. van N., *Fr. s* Edwards Pl.
Estes, J B., *Fr. a* 36 Wiggins St.
Evans, S. S., *Fr. s* P, Hill
Eves, W. III, *Fr. s* 36 Wiggins St
Ewing, F. K., *So. s* 69 U
Ewing, L., *Fr. s* 70 U
Ewing, N., Jr., *Jr. a* 86 Nassau St.

Failey, R. B., *Sr. a* 95 P
Fanning, L. M., *Fr. a* 32 Vandeventer Av.
Farber, B. F., *g* 309 H S
Farley, J. G., Jr., *Sr. a* 4 N R
Farr H. B., *So. a* 31 '79 H
Farr, J., Jr., *Jr.* a 13 '79 H
FARR, M. S., *Preceptor*, 12 Maple St.
FEAGLES, S. S., *Ass't Director of the Gymnasium*, The Gymnasium
Feck, C. A., Jr., *Jr. a* 153 L
Feigenspan, E. C., *So. s* 101 B
Fell, F. E., *Sr. s* 10 N M R
Fell, H. B., *Fr. s* 34 Vandeventer Av.
Fellows, O. B., *Fr. s* 36 Wiggins St.
Fender, R. C., *Sr. a* 32 L
Fenninger, L., *Jr. a* 4 S M R
Ferger, H. R., *q* 45 Vandeventer Av.
Ferguson, G. O., *Sp.* 36 P
Ferry, A. J. H., *g* 24 A S
Ferry, L. K., *So. a* 11 S W
Fiddler, E. T., *Jr. a* 21 S Ed
Field, J. T., *q* 19 Bank St.
Field, L. B., *g* 317 H S
Fillebrown, T. S., *Fr. s* C, Hill
Fillius, R. S., *So. s* 13 P
Finch, E. R., *So. a* 15 S Ed
Finck, E. M., *So. s* D, W B
Findley, E. T., *So. a* 45 Vandeventer Av.
Findley, P. B., *Jr., s* 13 E W
FINE, H. B., *Dean of the Faculty*, Dean's House
Fine, J., *So. a* 186 L
FINE, J. B., *Director of Athletics*, Princeton Preparatory School
Finney, W. P., Jr., *Sr. a* 9 N M R
Fish, E. C., *Sr. s* 10 W M W
Fish, W. N., *Fr. s* 33 S Ed
FISHER, F., *Mechanician*, 10 Dickinson St.
Flammer, H., *Fr. s* 31 Univ. Pl.
Flammer, W. H., *So. s* 80 Nassau St.
Flanigan. E. B., *So. s* 115 B
Flather, W. J., Jr., *Fr. s* 31 Univ. Pl.

FLEET, W. A., *Instructor*, 30 Mercer St.
Fleet, W. H. T., *Fr. a* 39 U
Fleming, W. L., *So. a* 51 B
Flory, G. G., *Sr. a* 14 B
Floyd, N., II, *Jr. s* 70 P
Fluhart, T. L., *Sr. a* 14 B
FOGEL, P. H., *Instructor*, 6 S M R
Forsyth, R. W., Jr., *Sr. a* 5 N R
FOSTER, W., *Ass't Professor*, Broadmead
Foster, W. E., *Sr. a* 1 E W
Fowler, A. K., Jr., *g* Tower Club
Fowler, H. E., *Sr. a* 53 Univ. Pl.
Fox, E. T., *So. s* 11 P
Fox, N. K., *Jr., a* 64 L
Frantz, L., *So. s* 84 P
FRAZER, D. R., *Trustee*, Newark, N. J.
Frazer, R. E., *So. a* 63 P
Frederick, H. A., *So. s* 80 Nassau St.
Freese, A., *Jr. a* 39 Univ. Pl.
French, C. H., *Sr. a* 13 S W
French, D., *Fr. a* 28 Vandeventer Av.
Fritts, F., *So. a* 5 S W
Frost, R. V., *Sr. s* 2 E M W
Fruit, F. T., *Sr. a* 41 P
Fry, M. H., *Jr. a* 10 S E B
Fulton, M. S., *g* 27 B S
Funk, W. J., *Jr. a* 16 L

Galey, T. M., *Sr. s* 24 P
Gallagher, S. M., *Sr. a* 51 '79 H
Gallaher, W. Q., *Fr. s* 28 Vandeventer Av.
Gamble, R. A., *Jr. a* 123 L
GARFIELD, H. A., *Professor*, 49 Library Pl.
Garrett, G. H., *q* 34 S Ed
GARRETT, R., *Trustee*, Baltimore Co., Md.
Garrett, W. O., *g* 57 B S
Garrison, R. A., *g* 217 H. S
Gault, M., Jr., *So. s* 51 L
Gaunt, H. G., *g* 409 H S
Gause, B. R., *Fr. a* 17 N Ed
GAUSS, C., *Professor*, 22 Alexander St
Gay, J., *Jr., a* 86 Nassau St.
Geddis, R. H., *Fr. s* 44 Vandeventer Av.
Gensler, D. E., *Sr. s* 111 L
GEORGE, C. A., *Library Assistant*, 282 Nassau St.
George, L. B., *Sr. a* 3 L P
Gerlach, A., *So. a* 8 E M W
GEROULD, G. H., *Preceptor*, 5 S E B
Getty, L. T., *Fr. s* 15 Dickinson St.
Gibbs, R. W., *So. s* 138 Nassau St.
Gibson, W. B., *Fr. a* 14 '79 H
Giffin, J. F., *So. s* 101 B
Gill, H. E., *So. s* 11 S E B
Gill, J. H., *Jr. a* 53 B
Gill, W. A., *Sr. a* 12 S E B
Gillespie, T. J., Jr., *Jr. a* 73 P
GILLESPIE, W., *Preceptor*, 10 Nassau St.
Gillon, W. H., *Fr. s* 16 W W
Gilmore, D. P., *So. a* 36 L
Gilmour, H. C., *Sr. a* 181 L
Gilmour, H. K., *So. s* 82 Nassau St
Gilpin, D. N., *Jr. a* 31 Nassau St.
Gilson, S. L., *Sr. a* 4 S R
Glass, J. P., *Sr. a* 66 L
Glenn, R. C., *Sr. a* 1 S W
Glover, S. R., *Jr. a* 1 S Ed
Goas, H. Z., *g* 14 N M R
Goff, J. C., *Fr. s* 11 Univ. Pl.
GOLDIE, G., *Director of the Gymnasium*, 35 Univ. Pl.
Goldsmith, W. DeL., *So. a* 13 N W
Good, W. P., *So. s* 97 B
Goppoldt, P. R., *Sr. s* 11 N M R
Gordon, S., *Jr. a* 7 N W
Gordon, S. R., *Jr. s* 8 S E B
Gorecki, T., *g* 1 S D
Graff, J. F., Jr., *Fr. a* 34 Vandeventer Av.
Graff, P., *Jr. a* 6 N D
Graham, G., *Sr. a* 42 '79 H
Granbery, W. L., Jr., *Fr. a* 33 Edwards Pl.
Grandin, G. M., *Sr. a* 11 E B
Grau, W. H. F., *Sr. a* 35 P
Gray, E., Jr., *Fr. s* 45 Univ. Pl.
Gray, H. R., *Fr. s* 33 Edwards Pl
Gray, S. T., *Jr. s* 104 B

Green, C. S., *Sr. a* 3 E W
Green, D. P., *Jr. a* 7 S D
Green, E. F., *Jr. a* 62 L
GREEN, H. W., *Trustee*, Trenton, N. J.
Green, J. C., *Sr. a* 10 E W
Greene, C. J., *Sr. a* 63 B
Gregory, F. A., *Sr. a* 43 L
GRIFFIN, N. E., *Preceptor*, 14 N D
Griffith, M. D., *Fr. s* 5 N Ed
Griscom, W. M., *Jr.* 5 B
Groeneveld, J. A., *Jr. a* 22 B
Grossman, J., *So. s* 19 E W
Guillaudeu, D., *Sr. s* 3 N D

Haaren, E. J., *Fr. s* 44 Vandeventer Av.
Haberman, S., *So. s* Q, Hill
Hackett, G. D., *Sp.* 5 E M W
Hagenbuch, R. I., *Jr. s* 11 W B
Haley, R. J., *Sr. a* 10 W W
Hall, M. A., *So. a* 71 L
Halliday, E. R., *Sr. a* 13 B
Hallimond, W. J., *Jr. s* 83 B
Halsey, J., *g* 33 A S
Halsey, W. W., *So. s* 8 S M R
Halsted, D., *Sr. a* 24 '79 H
Hamill, C. M., *Sr. a* 5 S R
Hamilton, F. F., *Fr. s* 19 Univ. Pl.
Hamilton, S. L., *So a* 11 S W
Handy, C. W., *Fr. s* Edwards Pl.
Haney, H. S., *g* 10 S Ed
Hanna, C. T., *So. s* 34 B
Hansel, E., *g* 46 A S
Harbinson, S. C., *g.* 32 B S
Hardin, E. K., *g* 211 H S
Hardison, F. B., *Jr. s* 10 S W B
Harlan, E. H. W., *Sr. a* 51 '79 H
HARMON, A. M., *Preceptor* 32 Mercer St
HARPER, G. M., *Professor*, Abroad
Harrer, G. A., *So. a* 31 William St.
Harris, H., *g* 307 H S
HARRIS, W. B., *Professor*, 280 Nassau St.
Harrison, G. A., *Sp.* 102 P
Harrison, J. W., *Sr. a* 2 S D
Harrison, R. F., *Fr. s* 33 Vandeventer Av.
Hart, T. A., *Fr. a* 15 N W
Hartshorne, H., Jr., *Fr. s* 47 Univ. Pl.
Hartshorne, R., *Jr. a* 43 B
Harvey, C., *Fr. s* 18 Madison St.
Harvey, H. M., *Fr. s* 29 Vandeventer Av.
Harvey, P., *Sr. s* 102 P
Harvey, S. G., *Sr. s* 33 '79 H
HASTINGS, H. K., *Preceptor*, 35 Bank St.
Hastings, W. H., *So. a* 5 S W B
Hastings, W. S., *So. a* 6 W W
Hatfield, W. B., *So. a* 1 E B
Haulenbeek, J. W., *Sr. a* 95 B
Haven, W. LeR., Jr., *Sp.* 1 S W B
Havron, J., Jr., *Sr. s* 42 P
Hawes, E. P., *Sr. a* 14 M D
Hawley, C., *So. s* 6 E M W
Hay, J. L., Jr., *Fr. s* 45 Univ. Pl.
Hayes, R. V., *So. s* 19 W W
Hayman, H. H., *g* 115 H S
Hays, S., *So. s* 152 L
Hazard, E., *q* 12 W B
Hazen, W. G., *So. a* 11 Nassau Inn
Heacock, C. J., *Fr. s* 20 Vandeventer Av.
Headley, H. P., *So. s* 3 E M W
Heagey, F. W., *Sr. a* 9 W M W
Heath, C., *Fr. s* 39 Univ. Pl.
Heermance, R., *g* Lawrenceville, N. J.
Helm, J. B., *q* 10 Madison St.
Helm, W. L., *Fr. s* Hill
Hemphill, W. L., *g* 42 A S
Henderson, G., *Jr. a* 61 '79 H
HENRY, B., *Trustee*, Philadelphia, Pa.
Henry, T. C., *Jr. a* 184 L
Hentz, F. W., *Fr. s* 27 Vandeventer Av.
Herrmann, J., *So. a* 13 S M R
Hetzel, W. B., *Jr. a* 15 S D
Heulings, L., *So. s* 16 S Ed
Heyl, E. R., *Fr. s* C, Hill
Heyniger, W. S., Jr., *Jr. s* 41 B
HIBBEN, J. G., *Professor*, 100 Bayard Lane
Hildebrant, W. G., *Jr. s* 93 P
Hill, R., Jr., *Sr. a* 9 W W
Hill, R. H., *Jr. a* 15 M D
Hills, R., *So. a* 39 N Ed
Hinds, T. N., *So. a* 172 L
Hinrichsen, A. F., *So. s* 8 W B
Hinton, S., *Jr. a* 7 N W

Hiromasa, K., *g* 10 S Ed
Hobbie, A. T., *So. s* 13 N W
Hodges, H. G., *Fr. s* 33 N Ed
Hoęs, G., *Fr. a* 39 Univ. Pl.
Hoffman, C. S., *g* 21 B S
Hoffstot, J. G., *Fr. s* Hill
Holdcroft, J. G., *g* 26 A S
Holley, L. A., *Fr. s*
32 Vandeventer Av.
Holmes, H., *Sr. s* 27 N Ed
Holsapple, E. T., *Jr. a* 53 L
Holt, H., *Fr. a* 9 U
Horner, B. S., *So. a* 8 S R
Horton, R., *So. s* 2 B
Horton, W. C., *Sr. s* 21 L
Hosford, C. F., Jr., *Sr. a* 2 E W
HOSKINS, J. P., *Ass't Professor*,
22 Bank St.
HOUGHTON, H. P., *Instructor*,
166 Nassau St.
House, C. L., *Jr. s* 15 S W
Houston, H. A., Jr., *Fr. a*
34 Vandeventer Av.
Houston, W. S., *Sr. a* 5 E M W
Howard, L., *Jr. a* 5 N M R
Howe, LeR. K., *Fr. s* 31 Univ Pl.
Howell, A. R., *Jr. s* 11 N D
Howell, K. B., *Fr. s* 22 S Ed
Huddleson, J. H., Jr., *Jr. a*
7 S E B
Hughes, B., *Fr. a*
32 Vandeventer Av.
Hughes, H. L., *So. a* 17 N W
Hughes, J. F., *So. a*
144 Nassau St.
Hughes, W. L., *Fr. s* 22 N Ed
Hulbirt, E. R., *Sr. s* 5 S Ed
HULETT, G. A., *Ass't Professor*,
2 Murray Pl.
HULSIZER, W. R., *Assistant*,
8 N R
Humbird, J. A., *Fr. s*
172 Nassau St.
Humiston, W. T., *Fr. s*
15 Univ. Pl.
Humphrey, K., *Fr. s* I, Hill
HUN, J. G., *Instructor*,
132 Mercer St.
HUNT, T. W., *Professor*,
48 Library Pl
Hunter, S. A., *So. a* 42 N Ed
Hunter, S. M., *g* 67 B S
Huston, J. A., Jr., *Sr. s* 21 L

Huston, W. A., *So. s* 9 S D
Hutcheson, W. P., *Jr. a* 15 S D
Hutchins, J. C., Jr., *Jr. a* 74 B
Hutchinson, C. P., *Jr. a* 42 B
Hutchinson, M., *Jr. a* 7 B
Hutchison, F. R., *Sr. s*
1 N M R
Hutchison, T. J., *g* 305 H S

Idema, W. D., *Fr, s*
29 Vandeventer Av.
Iguchi, S., *q*
46 Vandeventer Av.
ILES, I. V., *Instructor*, 11 E W
Ilsley, L. C., *g* 310 H S
IMBRIE, A. C., *Trustee*,
New York City
Imhoff, R H., *q* 16 Bank St.
Irwin, C. M., *So. a* 1 N Ed
Ivins, C. F., *Jr. a* 5 M D

Jackman, D. K., Jr., *So. s*
29 Alexander St.
Jackson, J. H., Jr., *Sr. a* 24 L
Jacobs, B. H., *Fr. a* 12 S Ed
JACOBUS, M. W., *Trustee*,
Hartford, Conn.
Jahn, N. F., *Jr. s* 62 B
Jamison, R. E., *Jr. a* 6 S D
Jamison, R. P., *Fr. s* 2 Nassau St.
Janeway, T. W., *So. s* 13 N M R
Janvier, E. P., *Fr. a* 15 N Ed
Jayne, W. H., Jr., *Fr. a*
47 Univ. Pl.
JEANS, J. H., *Professor*,
220 Mercer St.
Jenkins, H. H., *So. s* 51 L
Jennings, L. D., *Jr. a* 36 L
Jessup, E. C., *Fr. s* 4 U
John, R. R., *Fr. s* 4 E M W
John, W. M., *So. a* 183 L
Johnson, A. B., Jr., *So. s*
80 Nassau St.
Johnson, H., Jr., *Sr. a* 6 N R
JOHNSON, R. B. C., *Preceptor*,
Broadmead
Johnson, W. McC., *Sr. a* 9 W M W
Johnston, J. M., Jr., *Fr. a* 9 U P
JONES, A. L., *Preceptor*, 108 P
Jones, C. H., *g* Halle, Germany
Jones, C. W., *q* 53 Univ. Pl.
JONES, D. B., *Trustee*, Chicago, Ill.
Jones, G. M., *So. s* 182 L

Jones, H., *So. a* D, Hill
Jones, H. C., *Sr. a* 9 W M W
Jones, H. L., *Sr. a* 51 P
Jones, J. C., Jr., *Jr. a* 15 B
Jones, M. B., *q* 66 L
Jones, R. B., *Sr. a* 2 S W
Jones, R. E., *Sr. a* 2 W M W
Jones, S. A., *Fr. s* 28 S Ed
Joseph, L. A., *g* 15 A S
Joy, H. E., *Sr. a* Morven Pl.

Kain, W. F., *Sr. a* 35 L
Kalisch, I., *Sr. a* 3 S R
Kamerer, E. H., *Fr. s* 76 U
Kase, H. W., *q* 10 P
Kauffman, J. L., *Sr. a* A, B
Keen, F. A., *Jr. a* 104 P
Keeney, O. P., *So. a* 16 B
Keepers, G. A., *Sr. a* 6 W B
Keepers, W. L., *Sr. a* 53 L
Keller, C. A., *g* 207 H S
Kelley, E. C., *Jr. s* 54 B
KELLOGG, G. D., *Preceptor*, 10 Nassau St.
Kellogg, J. Y., *Jr. s* 10 M D
Kellogg, R. W., *g* A, A S
Kelly, H. F., *So. a* 26 M D
Kelly, J. H., *Sr. a* 134 L
Kelly, W. H., *Fr. a* 39 Univ. Pl.
Kendrick, L. R., *So. s* 13 P
Kennedy, C. W., *g* Munich, Germany
Kennedy, G. E., *Fr. a* 31 S Ed
Kennedy, J. C., Jr., *Fr. a* 11 Univ. Pl.
Kennedy, J. E., *Fr. a* 27 M D
Kent, P., *Jr. a* 80 P
Kerr, B. W., *e* Merwick
Kerr, E. S. W., *Jr. a* 53 '79 H
Kerr, J. T., *Sr. a* 16 S M R
Kettle, J. E., *So. s* 12 E B
Keyes, C. W., *So. a* 16 N W
Keys, W. A., Jr., *Jr. a* 122 L
Kiefer, R. W., *So. s* 52 L
Kiefer, K. Z., *Fr. s* 37 Wiggins St.
Kilgore, R., *Sr. s* 2 E M W
Kimball, H., *Jr. s* 2 S E B
Kimball, P., *So. a* 14 E W
Kimball, R. H., Jr., *Sr. a* Harrison Rd.
King, J. T., Jr., *So. a* 2 S W B
King, R. R. *Jr. a* 18 S W
Kirby, W. E., *So. s* 14 W W
Kirkpatrick, J. A., *So. a* 17 N W
Kistler, R. H., *Fr. s* 14 N Ed
Kleven, N., *g* 39 Wiggins St.
Knauer, C. E., *Jr. a* 71 P
Knott, L. A., *Sr. a* 35 P
Koch, R. R., *Jr. a* 90 P
KOREN, W., *Preceptor*, 65 B
Krause, A. K., *g* 10 N R
Krauthoff, P. C., *Fr. a* 15 Univ. Pl.
Kreutzberg, E. W. C., *Fr. s* 20 N Ed
Krieble, I. R., *Sr. a* 2 S M R
Kullmar, F. A., *g* 35 B S

Lackey, L. R., *Fr. s* 1 Vandeventer Pl.
Laird, W. M., *Fr. s* 46 Vandeventer Av.
Lambert, G. B., *Sr. a* 90 Nassau St.
Lambert, J. D. W., *Fr. s* 31 Univ. Pl.
Lampe, W. E., *g* 117 H S
Landes, P. S., *g* 15 B S
Landon, F. C., *Fr. s* 10 Univ. Pl.
Lane, M. D., *Fr. s* 36 Wiggins St.
Lanning, K. H., *Sr. a* 9 S E B
Larkin, F. R., *Fr. s* Hill
La Roe, W., Jr., *Jr. a* 1 S E B
Latta, W. J., Jr., *Jr. s* 12 B
Latimer, E., *Sr. s* 5 W W
Latimer, H. R., *Sr. s* 5 W W
Laubach, F. C., *Jr. a* 12 S M R
Lawrence, C. C., *Fr. s* 31 Univ. Pl.
Lawrence, D., *So. a* 1 W W
Lawrence, R. R., *Fr. a* 34 Vandeventer Av.
Lawrence, W. C., Jr., *Jr. a* 73 B
Leake, F., *Sr. a* 3 N D
Leake, J. B., *So. a* 131 L
Leas, D. S., *Sp.* 185 L
Lee, H. A., *So. s* 10 N D
Lee, T., *g* 34 A S
Leeper, W. F., *Jr. a* 10 W B
LeFevre, C. A., *Jr. a* 35 William St.
Leonard, G. A., *Sr. a* 3 U P
Lewis, J. W., *g* 31 Alexander St.
Lewis, M. A., *Fr. a* 164 Nassau St.
Lewis, P. S., *Fr. s* 11 Univ. Pl.

LIBBEY, W., *Professor*,
Thanet Lodge.
Libovitz, B., *Fr. s* 2 N Ed
Lichtenstein, H. S., *Fr. a*
Edwards Pl.
Lionberger, J. S., *Fr. a* 4 L P
Lippincott, J., *Jr. s* 73 B
Lit, D. J., *Fr. s* 8 E W
Lithgow, L. G., *Sr. a* 24 '79 H
Little, A. A., *Jr. s* 64 B
Livingston, R. R., *So. s* 11 L P
Lloyd, G. P., *So. a* 144 L
LONG, A. W., *Preceptor*,
110 Bayard Lane
Loomis, E., *Sr. s* 3 W B
LOOMIS, E. H., *Professor*,
302 Nassau St.
Looms, G., Jr., *Sr. s* 9 S W B
Lothrop, G. V., 2d, *Sr a* 5 N W
Louderbough, J. J., *g* 8 N R
Love, W. I., *q* 18 W W
LOVETT, E. O., *Professor*,
16 Prospect Av.
Lowe, L. F., *So. a* 23 '79 H
Lusk, W. B., *g* 7 B S
Luke, C. W., *Sr. a* 52 P
Lynn, W. M., *g* 54 B S
LYON, C. E., *Instructor*,
The Bachelors
Lyte, T. G., *So. s* 81 B
Lytle, S. H., *Fr. a* 18 W W

McAdoo, F. H., *So. a* 7 U P
McAllister, D. H., *So. s* 42 L
MCALPIN, C. W., *Secretary*,
Chancellor Green Library
McCarter, G. W. C., *Sr. a*
54 '79 H
McCarthy, W. R., *So. s* 81 B
Macartney, J. W., *Fr. s*
172 Nassau St.
MCCAY, L. W., *Professor*,
21 Boudinot St.
MCCLENAHAN, H., *Professor*,
12 Bank St.
McClintock, G. S., *Sr. a* 21 '79 H
MCCLURE, C. F. W., *Professor*,
21 Boudinot St.
McCord, W. W., *So. a* 6 E M W
MCCORMICK, C. H., *Trustee*,
Chicago, Ill.
McCormick, J. B., *Sr. s* 41 '79 H
McCrohan, J., *q* 17 S M R
McDermott, M. M., *So. a*
Dodge Hall
McDermott, W. C., *Sr. a*
15 N M R
Macdonald, C. I., *Fr. s* 5 L P
MACDONALD, F. C., *Preceptor*,
The Bachelors.
MacDonald, J. D., *Jr. s* 5 E B
MacDonald, K. P., *g* 200 H S
MCELROY, R. M., *Ass't Professor*,
Abroad
MacFadyen, D. MacK., *So. a*
1 N D
Macfarlane, H. P., *Fr. a*
2 Nassau St.
McGee, W. L., *Jr. a* 39 S Ed
Macgregor, A., *Fr. s* 41 S Ed
MCILWAIN, C. H., *Preceptor*,
4 Linden Lane
MACINNES, C. R., *Instructor*,
14 Vandeventer Av.
McIntire, H. G., *Fr. a*
32 Vandeventer Av.
Mack, P. W., *Fr. s* 37 Wiggins St.
McKaig, D., *So. s* 131 L
McKaig, E. S., *Sr. a* 8 W B
Mackie, A., *g* 201 H S
Mackie, N. S., *Jr. a* 22 '79 H
McLanahan, A., *Fr. s*
Lawrenceville, N. J.
McLean, A., III, *Fr. a* 36 N Ed
McLean, A. D., *So. s* 11 P
McLean, E. H., *Sr. a* 14 S W
McLeod, D. M., *Fr. s* F, Hill
MACLOSKIE, G., *Professor*,
239 Nassau St.
MCMILLAN, C., *Professor*,
40 Bayard Lane
McMillan, L. G., *So. a* 164 L
MacMurdy, R. D., *Fr. a* E, E B
McNair, R. S., *Sr. a* 17 S Ed
McNeely, C. W., *Jr. a* 95 P
McPherrin, G. R., *So. s* 7 N D
McPherson, J. F., *So. a* 17 B
MCPHERSON, S. J., *Trustee*,
Lawrenceville, N. J.
MACRAE, D. A., *Preceptor*,
20 Madison St.
Macurda, W. H., *Fr. a*
31 Univ. Pl.
MCWILLIAMS, E. C., *Instructor*,
60 Wiggins St.
McWilliams, N. B., *Jr. a* 3 N R

MAGIE, D., Jr., *Preceptor*, 12 Nassau St.
MAGIE, W. F., *Clerk of the Faculty*, 78 Library Pl.
MAGIE, W. J., *Trustee*, Elizabeth, N. J.
Magoffin, M. B., *Sr. a* 10 S W
Maher, A. P., *q* 164 Nassau St.
Mahn, B. R., *Sp.* 7 N Ed
Maires, T. W., *Fr. a* 17 Bank St.
Mann, J. F., *Fr. a* B, W B
March, W. A., *Sr. s* 52 B
Maresi, P. M., *Jr. a* 72 P
Marlin, R. D., *Jr. s* 103 P
Marlor, C. C., *Fr. s* 33 U
MARQUAND, A., *Professor*, Guernsey Hall
Marsh, J. I., *Fr. a* 19 Univ. Pl.
Marshall, T. H., *Sr. a* A, B
Martin, A. T., *Jr. s* 44 '79 H
MARTINS, C., *Library Assistant*, The Western Way
MARVIN, W. T., *Preceptor*, Broadmead
Matheny, R. C. O., *Jr. s* 2 W W
MATHEWS, C. E., *Instructor*, 166 Nassau St.
Mathews, E. N., *Jr. s* 8 S W B
Matter, M., *Jr. a* 95 P
Mattes, P. Van C., *So. a* 17 S W
Maulsby, H. H., *Jr. a* 23 B
Maury, A. G., *Sr. a* 86 Stockton St.
Maury, J. R., Jr., *Jr. a* 10 N W
Mayer, F. L., *Jr. a* 74 B
Mayers, E. C., *Fr. s* 44 Vanleventer Av.
Mayers, I., *Fr. a* 19 S Ed
Mead, L. M., *Fr. a* J, Hill
Meagley, G. C., *Fr. a* 41 U
Meaker, S. R., *Fr. a* 60 Univ. Pl.
Mecabe, E. W., *Sr. a* 41 P
Medina, H. R., *Jr. a* 72 P
MEEKER, R., *Preceptor*, 61 Wiggins St.
Meese, D. O., *Jr. a* 6 S W
Meigs, R. R., *So. s* 4 W W
Melick, U. G., *Fr. a* 32 N Ed
Meredith, W. M., Jr., *Fr. a* 8 Dickinson St.
Merle-Smith, Van S., *Fr. a* 47 Univ. Pl.
Mershon, S. L., III, *So. a* 7 N M R
Merwin, J. O., *e* Merwick
Merzbacher, S., *So. a* Trenton, N. J.
Messler, D. I., *q* 17 Bank St.
Mettler, T. H., *Sr. a* 94 B
MICHAUD, R., *Preceptor*, 30 Mercer St.
Midkiff, H. P., *g* 29 B S
Mierow, C. C., *g* Merwick
Mierow, F. C., *So. s* 6 N M R
Miers, E. D., *Sr. a* 5 W B
MILES, L. W., *Preceptor*, 272 Nassau St.
Miller, E. P., Jr., *Sr. a* 10 S W
Miller, G. N., Jr., *So. a* 161 L
Miller, K. D., *Sr. a* 12 S E B
Miller, LeR. B., *Fr. a* Edwards Pl.
MILLER, L. H., *Ass't Professor*, 15 Alexander St.
Miller, M. P., *Fr. s* 4 S D
Milliken, W. M., *Fr. a* 32 Vandeventer Av.
Milne, A., Jr., *Jr. s* 9 N W
Minch, R. F., *So. a* 144 Nassau St.
Mitchell, H. H., *g* 25 S Ed
Mitchell, R. H., *Jr. s* 11 S Ed
Mitchell, S. T., *So. a* 100 P
Moffat, F. E., *Fr. a* 33 Edwards Pl.
Moffat, J. W., *Fr. s* 32 Vandeventer Av.
Monroe, A. P., *Fr. a* Edwards Pl.
MOORE, A. A., *Preceptor*, 10 Nassau St.
Moore, E., *Jr. s* 15 E W
Moore, J. T., *So. s* 141 L
MOORE, R. L., *Instructor*, 23 Madison St.
MOREY, C. R., *Preceptor*, 32 Vandeventer Av.
MORGAN, J. S., *Associate Librarian*, Constitution Hill
Morrison, D. A., *q* B, Hill
Morrow, H. S., *Jr. s* 11 W B
Morse, A. E., *g* 76 Alexander St.
Morse, H. F., II, *Fr. a* 33 Edwards Pl.
Mosher, O. W., Jr., *Jr. a* 6 Nassau Inn
Mount, R. I., *Sr. s* 111 L
Mulford, R. H., *Jr. a* 32 B
Mulholland, R. H., *g* 21 A S

Muller, H. A., *g* 39 B S
Munkittrick, M. T., *So. a* 12 E B
Munoz, J., *Sr. s* 4 B
MURCH, H. S., *Instructor*, 17 Alexander St.
Murray, C., *Sr. a* 8 N M R
Murray, J. W., *Jr. a* 2 W B
Murray, S. B., Jr., *Jr. a* 6 N W
Musser, J. C., *Fr. a* 7 E W
Muzzey, W. M., *Fr. a* 53 Univ. Pl.
Muzzy, H. E., *Fr. a* 47 Univ. Pl.
Myers, A. C., *Jr. a* 62 '79 H
Myers, F. C., *Jr. a* 10 S E B
Myers, J. P., *Sr. a* 7 W M W
Myers, W. H., Jr., *Jr. a* 62 '79 H
MYERS, W. S., *Preceptor*, 26 Bank St.

Nason, N., *Fr. s* Edwards Pl.
Neff, W. R., *Sr. a* 92 P
NEHER, F., *Professor*, 96 Library Pl.
Nevin, E. P., *Fr. a* 15 Univ. Pl.
Nichols, C. C., *Sr. a* 20 P
Nichols, C. H., *Jr. a* 10 S D
Nicoll, W. L., *Fr. a* 11 L P
Niedermeyer, F. D., *g* 23 A S
Niles, F. S., *Jr. a* 13 S M R
NIXON, P., *Instructor*, 33 Bank St.
Norris, P. C., *g* 17 N Ed
Norris, W. M., Jr., *So. a* 69 Alexander St.
NORTHUP, G. T., *Preceptor*, 43 P
Northwood, A., *Jr. a* 7 N R
Norton, P., *g* 4 S W B
Nutting, J. H., *Jr. a* 2 S W

Ober, A. G., Jr., *Jr. a* 23 P
Ober, B., *Fr. a* Edwards Pl.
Ober, D., *Jr. a* 62 P
Ober, F. B., *So. a* 71 L
Ober, J. H., *Jr. a* 62 P
O'Connor, J. B., *g* 20 N Ed
O'Donoghue, F. J., *Fr. s* 40 N Ed
O'Donoghue, M. T., *Fr. s* 37 N Ed
Ogden, E. M., *Jr. a* 12 B
Ogle, K. L., *So. s* 154 L
O'Hara, E. A., *Fr. s* 34 Vandeventer Av.
Olcott, A. Van S., *Jr. s* 22 B
Olcott, C. T., *Fr. a* 47 Univ. Pl.
Olcott, G., *Jr. a* 3 W B
Olds, D. S., *Sp.* 88 Nassau St.
Olds, E. C., *Jr. a* 52 B
Ong, E. M., *Sr. s* 22 P
Orbison, D. C., *Fr. s* A, E B
Ormond, A. H., *Sr. a* 276 Nassau St.
ORMOND, A. T., *Professor*, 276 Nassau St.
Orr, G. N., *So. a* 142 L
Orr, J., *g* 69 B S
Osborn, F. H., *So. a* 4 U P
Osborn, H. F., Jr., *Jr. a* 162 L
Osborne, H. B., *Fr. s* 33 Vandeventer Av.
Osborne, R. D., *Sr. a* 92 P
OSGOOD, C. G., *Preceptor*, 13 L
Otten, F. G., *So. s* 1 W M W
Ottinger, W. N., *Jr. a* 43 B
Overholt, J. D., *q* 15 L

PACKARD, W. A., *Professor*, College Pl.
Page, A. S., *So. s* 81 P
PAHLOW, E. W., *Instructor*, 73 Prospect Av.
PARDOE, W. D., *Assistant, and g* 10 Maple St.
Parke, L. T., *So. s* 31 B
Parke, S. R., Jr., *Fr. s* 38 U
Parker, M. M., Jr., *Fr. s* 19 Univ. Pl.
Parkin, H. C., *Sr. a* 34 P
PARROTT, T. M., *Professor*, 104 Mercer St.
Parsons, R. P., *Jr. a* 70 P
Passerella, M., *Jr. a* 93 B
PATTON, F. L., *Ex-President*, Springdale
PATTON, G. S., *Professor*, Springdale
Patton, R. L., *Fr. a* 19 Univ. Pl.
Paul, T. S., *Fr. a* 47 Univ. Pl.
Payne, B. B., *Fr. s* 15 Univ. Pl.
Peacock, C. N., *So. s* 133 L
Peacock, J. C., *Jr. a* 19 N W
Peacock, J. P., *So. s* 88 Nassau St.
Peckham, H. R., *Jr. s* 60 P
Peckham, P. T., *q* 23 M D
Peirce, C. C., *Jr. a* 11 B
Penney, G. W., *Fr. s* 47 Univ. Pl.
Pennington, H. P., *So. a* 12 M D
Pennington, J. A. G., *So. a* 112 L
Penrose, C., *e* 63 '79 H

Percy, LeR. P., *So. s* 10 L P
Perkins, C. B., *Fr. a* 45 Univ. Pl.
Perrine, F. S., *Jr. s* 23 L
Perry, F., *Fr. s* 32 Wiggins St.
Peters, R., Jr., *Sr. s* 7 W M W
Pfieffer, T. N., *Sr. a* 12 S E B
PHILLIPS, A. H., *Professor*, Hodge Rd.
Phillips, C. K., *Jr. a* 10 S R
Phillips, S., *Jr. a* 54 L
Phillips, W. J., *Sr. a* 94 P
Phraner, S. W., *Jr. a* 18 N W
Pierce, A. J., *Jr. s* 3 S W
Pierce, W. L., Jr., *Fr. a* 31 Univ. Pl.
Pierson, N. E., *Fr. a* 3 S D
Pierson, S. N., *Fr. a* 3 S D
Pinckard, P. McA., *Fr. s* 19 Univ. Pl.
Pitman, C. F., *So. s* 6 S R
Plaut, L. S., *Jr. a* 52 L
Plunkett, C. T., *Jr. a* 14 L
Pomeroy, W. McL., *Sr. a* 34 '79 H
Pope, S. L., *So. a* 20 S W
Porter, G. J., *Fr. s* 28 N Ed
Porter, J. J., *Fr. a* 33 Edwards Pl.
Potter, J. H., *So. a* 19 M D
Potter, S. C., *So. a* 8 E M W
Power, R. J., *g* 27 B S
PRENTICE, W. K., *Professor*, 72 Stockton St.
Prescott, R. A., *So. s* 88 Nassau St.
Prescott, R. B., *Fr. s* 15 Univ. Pl.
Prettyman, G. W. L., *Fr. s* 26 N Ed
PRICE, B. M., *Instructor*, 30 Mercer St.
PRIEST, G. M., *Preceptor*, 5 S E B
Prince, E. L., Jr., *Fr. s* O, Hill
Prizer, W. M., *Jr. a* 5 S R
Pruyn, C. L., *Fr. s* 15 Univ. Pl.
Pullen, E. C., *Sr. a* 92 Stockton St.
Pyle, D. H., McA., *Sr. a* 9 L P
Pyle, W. S., Jr., *Fr. a* 47 Univ. Pl.
PYNE, M. TAYLOR, *Trustee*, Drumthwacket
Pyne, M. T., Jr., *Sr. a* 9 L P

Quillian, C. F., *g* 10 N Ed
Quinn, J. R., Jr., *Jr. a* 138 Nassau St.

Raleigh, S. F., *Fr. a* 34 Vandeventer Av.
Ralli, C. P., *Sr. s* 34 P
Ralph, H. W., *q* 20 N W
Rankin, E. E., *Jr. a* 6 Nassau Inn
RANKIN, E. M., *Preceptor*, 43 '79 H
Rankin, H. E., *Jr. a* 6 Nassau Inn
Rankin, M. K., *q* 47 U
RANKIN, W. M., *Professor*, Evelyn Pl.
Ransome, P. A., *Fr. s* 42 Wiggins St.
Read, C. N., *Sr. s* 1 U P
Read, F. B., *So. a* 2 U P
Read, K. McK., *So. s* 90 Nassau St.
Reed, H. F., *So. a* 144 Nassau St.
Reed, P. B., *So. a* 79 U
Reeves, B. Van D., *Fr. a* 60 Univ. Pl.
Reigner, C. G., *Fr. a* 9 S R
Reilly, C. G., *Fr. s* 19 Univ. Pl.
Rendall, J. H., *q* 62 U
Rentschler, F. B., *Jr. a* 10 S D
Reynolds, H., *Jr. a* 61 '79 H
Reynolds, M. K., *Jr. s* 6 S W B
Rheinstein, A., *Fr. s* 82 B
Rhodes, J. R., *q* 7 Park Pl.
Rice, C. S., *g* 67 B S
Rice, R. W., *q* 112 L
RICHARDS, A. E., *Instructor*, 14 Univ. Pl.
RICHARDSON, E. C., *Librarian*, Abroad
Richardson, E. J., *So. s* 112 L
Richardson, L. W., *Jr. a* 11 B
Richardson, N. D., *q* 18 E W
RICHARDSON, O. W., *Professor*, 25 Bank St.
Richardson, W. E., *So. a* 92 B
Riddle, R. J., Jr., *Jr. a* 3 E B
Rising, S. M., *Jr. s* 3 S E B
Robbins, C. A., *Sr. a* 8 S R
Robbins, E. H., *Fr. s* 1 Vandeventer Pl.
ROBBINS, E. Y., *Professor*, 58 Univ. Pl.
Roberts, D., *Jr. a* 53 '79 H
Robinson, H. W., *Jr. a* 61 P
ROBINSON, P. E., *Ass't Professor*, 37 Bank St.
Robinson, R. G., *Sr. a* 6 S E B

Roche, R. T., *Fr. s* 29 Vandeventer Av.
Rochester, W., *q* 45 Univ. Pl.
Rockwell, S., Jr., *q* 8 S E B
ROCKWOOD, C. G., Jr., *Professor*, 34 Bayard Lane
Rodes, C., *So. s* 3 E M W
Rodgers, E. V., *So. s* 5 S W B
Rogers, C. H., *Jr. a* 109 P
Rogers, R., *Fr. a* 19 S W
Rolston, B., *So. a* 102 B
Rolston, R. G., *So. s* 102 B
Root, G. F., *Fr. s* 15 Univ. Pl.
ROOT, R. K., *Preceptor*, 8 E B
Ropes, R., *Jr. a* 21 B
Rose, A. L., *Sr. a* 38 L
Ross, T. G., *Fr. s* 12 Park Pl.
Rouse, L. J., *Sr. a* 12 N D
Rowan, T., *g* 410 H S
Rowe, H., *Fr. s* Edwards Pl.
Rowe, R. M., *So. s* 2 N D
Rowland, J. H., II, *Fr. s* Edwards Pl.
Rupert, W. E., *Jr. a* 9 E W
RUSSELL, A. D., *Trustee*, Edgerstoune
RUSSELL, H. N., *Instructor*, 79 Alexander St.
Ryan, A., *Sr. a* 10 W M W

Salsbury, J. M., *Jr. s* 9 B
Samuels, A. H., *Jr. a* 104 P
Sanborne, G. G., *So. a* 1 N Ed
Sanford, A. H., *Jr. a* 23 B
Sanford, F. D., *Jr. a* 61 P
Savage, C. C., Jr., *Fr. a* 16 Vandeventer Av.
Schaff, W., *Jr. a* 133 L
Schauffler, H. R., *Fr. s* 24 M D
Schehr, L., *So. a* 38 S Ed
Schenck, A. T., *Fr. a* Princeton, N. J.
Schoomaker, J. M., Jr., *Fr. s* L, Hill
Schroeder, W., *Sr. a* 40 S Ed
Schultz, C. K., *Sr. a* 9 S R
SCHUMAKER, I. R., *Assistant*, 7 Park Pl.
Schwenke, C. H., *g* 31 A S
Schwob, L. A., *Fr. a* 32 Vandeventer Av.
Scott, A. H., *Sr. a* 2 E B
Scott, C. H., *Jr. a* 56 Bayard Lane
Scott, L. M., *Sp.* 56 Bayard Lane
Scott, L. P., *Jr. a* 10 S R
SCOTT, W. B., *Professor*, 56 Bayard Lane
Scull, J. I., *Jr. a* 15 N D
Scully, R. T., *q* 1 U P
Seeley, deB. K., *Fr. a* 31 Univ. Pl.
Seeley, G. P., Jr., *Jr. s* 153 L
Seggermann, F. T., *Fr. s* 31 Univ. Pl.
Selby, E. C., *Jr. a* 54 B
Sellman, J. L., *Fr. s* 23 Edwards Pl.
Serfas, L. C., *Fr. s* 10 S M R
Serfas, T. A., *Sr. a* 6 W B
Sewall, C., *Sr. a* 2 E B
Shafer, E. J., *Sr. a* 6 S E B
Shand, W., *Jr. a* 20 E W
Shaner, C. H., *Jr. s* 23 L
SHEA, J. B., *Trustee*, Pittsburg, Pa.
SHELDON, E. W., *Trustee*, New York City
SHELDON, W. H., *Preceptor*, 14 Univ. Pl.
Shellabarger, S., *Jr. a* 2 W B
Shellito, J. C., *Fr. s* 10 Madison St.
Sherrill, H. W., *Jr. a* 6 E B
Shimer, S. G., *So. a* 80 Nassau St.
SHIPMAN, H. R., *Preceptor*, 27 Mercer St.
Sholl, W. N., *g* 304 H S
Shultz, D. S., *Jr. a* 9 N R
Shumway, E., DeW., *Sr. s* 96 B
Sichelsteil, A. J., *Jr. a* 71 B
Sichelstiel, B. L., *So. a* 71 B
Sides, W. R., *Jr. s* 3 S E B
Sidwell, P., *Jr. a* 36 L
Siegling, R. C., *So. s* 182 L
Sill, T. W., *Fr. s* 53 Univ. Pl.
Silvers, W. R., *Jr. a* 9 N W
SILVESTER, C. F., *Assistant*, 10 Nassau St.
SILVESTER, L. V., *Preparator*, Mt. Lucas
Simons, D. MacL., *Fr. a* 47 Univ. Pl.
Simons, L. H., *Sr. a* 1 E M W
Simpson, R. S., *g* Merwick
Sinclair, D. B., *So. a* 11 U P
SINCLAIR, W. J., *Instructor*, 7 Evelyn Pl.
Skidmore, L., Jr., *Fr. a* 53 Univ. Pl.

Slaymaker, W. W., *Fr. s* 45 Vandeventer Av.
Sloane, G., *Fr. s* 15 Univ. Pl.
Slocum, M. S., *So. s* 116 B
Small, C. R., *So. a* 16 N W
Smalley, R. J., *g* 417 H S
Smith, C. L., *Fr. s* 39 Univ. Pl.
Smith, C. P., *e* 123 L
Smith, D. M., *So. a* 51 B
Smith, F. P., *Fr. a* 30 S Ed
Smith, G. D., *Sr. a* 54 '79 H
Smith, H. A., *Jr. s* 8 S E B
Smith, H. B., *g* 25 A S
Smith, H. B., *Fr. s* 47 Univ. Pl.
SMITH, H. S. S., *Professor*, 14 Dickinson St.
Smith, I. H., *So. s* 31 L
Smith, J. C., *So. s* 19 M D
Smith, J. T. R., *q* 72 L
Smith, L. B., *Fr. s* 19 Univ. Pl.
Smith, L. W., *Sr. a* 7 S R
SMITH, N., *Professor*, 95 Mercer St.
Smith, P. C., *Fr. s* 37 Wiggins St.
Smith, R. H., *Jr. a* 15 S W
Smith, R. H., Jr., *Fr. s* 60 Univ. Pl.
Smith, R. L., *q* 11 Alexander St.
Smith, T. L., *Sr. a* 5 N R
Smith, W. P., Jr., *So. s* 10 U P
Smith, W. W., *Fr. s* 34 Vandeventer Av.
SMYTH, C. H., Jr., *Professor*, 70 Hodge Rd.
Solinger, W. B., *Sr. a* 4 Nassau Inn
Sommerville, R. J., *So. a* 7 N D
Souder, D. M., *Fr. s* 22 Edwards Pl.
Southworth, F. P., *Sr. a* 24 B
SPAETH, J. D., *Preceptor*, 20 Alexander St.
SPAETH, S. G., *Instructor*, 20 Alexander St.
Sparks, W. R., *Fr. s* Hill
SPAULDING, E. G., *Preceptor*, 82 P
Speers, W. E., *Fr. a* J, Hill
Spelman, W. B., *q* 60 Univ. Pl.
Spence, B. J., *g* 19 Bank St.
Spencer, A. H., *Sr. a* 41 L
Spencer, C. DuP., *Jr. a* 11 M D
SPENCER, C. W., *Preceptor*, 24 Mercer St.
Spencer, G. F. M., *So. a* 12 N W
Spicer, A. W., *Fr. s* 73 U
Spohn, G. S., *g* 9 N Ed
Sprague, C. O., M. *Jr. a* 15 N D
Spring, R. R., *So. a* 8 W M W
Springer, W. C., *Sr. s* 40 P
Sprunt, J. L., *So. a* 17 B
Stafford, F. M. A., *q* 25 P
Stauffer, I. Y., *Jr. s* 17 W W
Steffens, J. J., *g* 8 A S
Stephens, L. W., *So. a* 20 B S
Stern, K. G., *Jr. a* 14 N W
Stevens, R. D., *g* 68 Univ. Pl.
Stevens, R. E., *Sr. s* 6 N R
Stevenson, P. H., *Jr. a* 6 S D
Stevenson, W. C., *So. a* 32 P
Stewart, F. W., *Fr. s* 39 Nassau St
STEWART, G. B., *Trustee*, Auburn, N. Y.
Stewart, G. S., Jr., *So. a* 6 W M W
STEWART, J. A., *Trustee*, New York City
Stewart, L., Jr., *Fr. s* Hill
Stewart, W., *q* 3 S W
Stiles, H. R., *Sr. a* 4 W M W
Stitt, P. H., *So. a* 12 S D
Stockton, W. T., *Jr. a* 7 S R
Stoever, E. R., 6 U P
Stohlmann, W. F., *Jr. a* 64 B
STOKES, EDWARD C., *Trustee*, Trenton, N. J.
Strange, R., *Jr. a* 3 N R
Straus, H. G., *So. s* 4 Nassau Inn
STROMQUIST, C. E., *Instructor*, 44 Wiggins St.
Strong, L. P., *Jr. s* 3 S M R
Strong, M. W., *Fr. a* 38 Wiggins St.
Strong, W., *Fr. s* 37 Wiggins St.
Struble, R. McB., *Fr. a* 37 Nassau St.
Stryker, L. C., *So. a* 10 E M W
Stuart, A. E., *Sr. a* 7 E B
STUART, D. C., *Instructor*, The Western Way
STUART, D. R., *Professor*, Broadmead
Stuckey, H. S., *Sr. a* 9 E M W
Studer, A. C., Jr., *Sr. a* 84 B

Stump, H. A., Jr., *Fr. a* 19 Univ. Pl.
Surbrug, J. W., Jr., *Jr. s* 9 M D
Sütter, D., *So. a* Hill
Sutton, J. S., *So. s* 143 L
Swartz. A, S., *Jr.*, 41 L
SWIFT, E., *Instructor*, 23 Madison St.

Taggart, W. L., *Fr. s* 39 Vandeventer Av.
Talbot, B. A., *Sr. a* 12 P
Talbott, H. S. *Fr. s* Edwards Pl.
Talcott, W. F., *So. s* 6 B
Taliaferro, M. S. *Sr. a* 94 P
Tams, J. E. M., *Fr. a* 34 Wiggins St.
Tarbell, F. S., *Fr. s* 70 U
Taylor, A. A., *Fr. a* 29 Vandeventer Av.
Taylor, A. K., *Fr. s* 2 Nassau St.
Taylor, H. F., *Sr. a* 8 W B
Taylor, J., *So. s* 11 U P
Taylor, J. C., *g* 403 H S
Taylor, J. S., *So. a* 90 Nassau St.
Taylor, L. A., *Fr. a* 27 Univ. Pl.
Taylor, P. M., *Sr. a* 11 S D
Temple, W. C., *Sr. a* 10 N R
Terry, D. J., *So. a* 7 S W
Terry, R. M., *So. s* 5 Nassau Inn
Tevis, C. C., *g* 215 H S
THAYER, H. W., *Preceptor*, 30 Mercer St.
Thibaut, F. J., *So. s* 33 L
Thibaut, R. E., Jr., *Sr. s* 42 P.
Thomas, G. C., Jr., *Fr. s* 47 Univ. Pl.
Thomas, I., *Jr. a* 9 E W
Thomas, J. G., *g* 3 L P
THOMAS, P., *Instructor*, 5 Nassau St.
Thomas, R. L., *Jr. a* 9 S W
THOMPSON, H. B., *Trustee*, Greenville, Del.
THOMPSON, H. D., *Professor*, 11 Morven St.
Thompson, J. F., *Fr. a* 15 Dickinson, St.
Thompson, J. M., *So. s* 92 B
Thompson, L. M., *Sr. s* 95 B
Thompson, W. N., *Sr. a* 1 E M W
Thompson, W. K. C., *So. a* 18 S M R
Thorburn, G., *Jr. a* 21 B
Tibbott, F. M., *Jr. s* 106 P
Tiemann, J. L., *So. a* 1 B
Tilton, H. S., *Fr. s* 39 Vandeventer Av.
Tobey, H., *So. s* 22 L
Tobias, G. H., *Fr. s* 22 Edwards Pl.
Todd, R. W., *So. a* 11 Nassau Inn
Tomlinson, P. G., *Jr. a* 86 Nassau St.
TONKS, O. S., *Preceptor*, 15 Madison St.
Tonnéle, T. M., *So. a* 73 P
Townsend, H. P., *So. s* 12 '79 H
Tracy, W. R., *So. s* 183 L
Tregloan, J. H., *So. s* 7 E M W
Trimble, H. W., *Jr. a* 5 M D
Trimble, R. J., *So. s* 2 M D
TROWBRIDGE, A., *Professor*. Hodge Rd.
Trumbower, H. R., *g* Merwick
Turner, H. G., *Jr. a* 53 B
Turner, H. W., *Jr. a* 31 Nassau St.
Tuttle, F. H., *g* 11 Park St.
Tuttle, F. L., Jr., *Fr. a* 7 W W
Tyson, F. H., *q* 20 W W

Uhler, A. M., *Fr. a* 34 Vandeventer Av.
Updegraff, H. H., *So. s* 20 N W

Vail, J. I. B., *So. s* 115 B
Valentine, R. H., *Fr. s* 4 S W
Van Arsdale, H., Jr., *So. s* 15 P
Vanderhoef, G. W., Jr., *Sr. a* 7 U
VAN DEVENTER, H. B., *Instructor*, 12 Nassau St.
Van Deventer, J. N., *Fr. s* 35 S Ed
Van der Voort, J. N., *Sr. a* 41 B
Van Dewater, A. F., *So. s* 8 W M W
Van Dyke, A. G., *q* 5 S D
VAN DYKE, H., *Professor*, 59 Bayard Lane
van Dyke, H. J., III, *Sr. a* 33 P
VAN DYKE, H. N., *Registrar*, University Offices
Van Dyke, J. C., *So. a* 121 L
VAN DYKE, P., *Professor*, 89 Library Pl.

VAN HOOK, L., *Preceptor*, 35 Bank St.
VAN INGEN, G., *Assistant*, Broadmead
VAN RENSSELAER, A., *Trustee*, Philadelphia, Pa.
Van Valzah, H. F., *So. s* 11 Nassau Inn
Van Wagenen, N. B., *So. a* 12 S W
Van Winkle, C., *So. a* 1 L P
VAUGHAN, C. L., *Demonstrator*, 26 S Ed
Vaughan, J. P., *Jr. a* 4 S Ed
Vaughn, R., *Jr. s* 62 B
VEBLEN, O., *Preceptor*, 34 L
Veeder, L. B., *So. a* 4 E B
Vermilye, H. N., *So. a* 12 N W
Verner, A. W., *Jr. a* 10 N W
Vernon, C. W., Jr., *Jr. a* 3 W M W
Vezin, C., Jr., *Jr. a* 105 P
Vezin, C. D., *Fr. a* 47 Univ. Pl.
Voigt, E. R., *Sr. a* 13 U P
Vredenburgh, E. H., *Fr. a* 46 Vandeventer Av.
VREELAND, W. U., *Professor*, 180 Mercer St.

Waggoner, R. A., *g* 63 B S
Wagman, L. B., *Jr. a* 6 E B
Wagner, E. L., *Jr. s* 31 William St.
Waite, J. R., *g* 415 H S
Wakimoto, Motojiro, *g* 18 S Ed
Wallace, E. F., *Fr. s* 45 U
Wallace, R. W., *Sr. a* 5 W M W
Wallace, R. W., *Jr. a* 7 S D
Wallace, W. H., Jr., *Fr. a* 107 P
Waller, J. B., Jr., *So. a* 8 L P
Waller, P. E., *So. a* 36 P
Walter, A. G., *Jr. a* 16 M D
Wangler, A. McC., *Fr. s* 34 Vandeventer Av.
Ward, C., *g* Paris, France
Ward, H. H., *So. s* 90 Nassau St.
Ward, W. L., *So. s* 90 Nassau St.
Wardwell, E. H., *Fr. s* 33 Edwards Pl.
Warfield, W. S., III, *So. s* 61 L
Warner, D. L., *Sr. a* 7 U
Warner, J. R., *So. s* 113 B
WARREN, H. C., *Professor*, 93 Library Pl.
Warwick, W. R., *So. s* 168 Nassau St.
Watanabe, I. L., *g* 401 H S
Waterman, W. B., *Fr. s* 15 Univ. Pl.
Watkins, J. M., *Sr. a* 42 '79 H
Watson, P. J., Jr., *q* 168 Nassau St.
Watters, P. S., *So. a* 7 S W
Waugh, R., *Fr. a* 15 Univ. Pl.
Weeks, R. F., *So. a* 39 U
Weelans, C. H., *Sr. a* 9 S E B
Weems, F. C., *g* Merwick
Welch, T. H., *So. s* 2 B
Weld, W. E., *g* 31 A S
Wells, F. C., Jr., *Fr. a* 9 N D
WEST, A. F., *Dean of the Graduate School*, 90 Bayard Lane
West, W. T., *Sr. a* 84 B
WESTCOTT, J. H., *Professor*, 200 Mercer St.
Westenhaver, E. P., *So. a* 6 E W
Westervelt, W. W., *Sr. a* 14 S W
Whaler, J. W., *Fr. a* 17 N Ed
Whaley, F. M., *Jr. a* 32 '79 H
Wheeler, E. C. T., *Fr. a* 38 N Ed
Wheeler, N. P., Jr., *Sr. a* 94 P
White, E. H., Jr., *So. a* 124 L
White, S. V., *Fr. s* 3 S Ed
White, W. D., Jr., *Fr. s* 19 Univ. Pl.
Whitely, G. H., Jr., *So. s* 84 P
Whitely, J. O., *Fr. s* 27 Vandeventer Av.
Whitlock, W. P., Jr., *So. s* 33 L
Whitman, E. B., *So. s* 2 U P
Whitman, W. L., *So. s* 80 Nassau St.
Whitmarsh, D. C., *g* 32 A S
WHITNEY, G. W. T., *Instructor*, 18 Madison St.
Whitney, W. M., III, *Fr. s* 23 Edwards Pl.
WHITTLESEY, W. L., *Instructor*, 45 Wiggins St.
Wick, K. B., *Fr. s* 19 Univ. Pl.
Wiess, H. C., *Jr. s* 15 B
Wight, E. H., *So. s* 12 M D
Wilcox, L. F., *So. s* 4 W B
Wilder, L. R., *Jr. s* 32 '79 H
Wilken, B. O., *Fr. s* 34 Vandeventer Av.
Wilkins, W. M., *So. a* 68 L
Wilkinson, G. E., *Fr. s* 186 L

Williams, C., *Sr. a* 11 W W
Williams, G. R., *Fr. s* 53 Univ. Pl.
Williams, R. O. C., *So. s* 112 B
Williamson, D. C., *g* 46 B S
Willouer, A. L., *Fr. a* 29 S Ed
WILLSON, F. N., *Professor*, Stony Brook
Wilmerding, L. E., *Sr. a* 13 N D
Wilson, C. F., *So. s* 44 B
Wilson, M. H., *g* 46 B S
Wilson, P. D., *Jr. s* 12 S W B
Wilson, P. H., *So. a* 73 Stockton St.
Wilson, R. S., *So. a* 97 B
WILSON, WOODROW, *President*, Prospect
Wilson, W. O., *So. a* 132 L
Winans, J. M., *Sr. a* 21 Morven St.
WINANS, S. R., *Professor*, 21 Morven St.
Winant, C. D., *Fr. s* 8 U P
Winch, S. R., *Fr. a* 20 Vandeventer Av.
Wing, J. D., II, *Fr. a* Edwards Pl.
Winn, G. P., *Jr. s* 3 S Ed
Wister, L. C., *Sr. a* 6 U P
Woehr, I. M., *So. s* 4 N M R
Wolf, J. S., *So. a* 7 E M W
Wolferth, C. C., *Sr. a* 4 W M W
WOOD, C., *Trustee*, Philadelphia, Pa.
Wood, I. E., *Sr. s* 13 W W
Wood, I. T., *Sr. a* 20 Bayard Lane
Wood, P. C., *Sr. a* 13 W W
Woodbridge, T. D., *Fr. a* 25 N Ed
Woodhull, J. T., Jr., *Fr. s* 39 Vandeventer Av.
Woodruff, G. P., *Fr. a* F, W B
Woodruff, T. S., *So. a* 168 Nassau St.
Woods, R. H., *So. s* 13 M D
Woods, W. J., *Fr. a* 72 U
WOODWARD, T. S., *Instructor*, 33 B
Wright, C. G., *q* 11 L
Wright, H. K., *g* 37 B S
Wyckoff, E. H., *Jr. a* 90 P
WYCKOFF, W. A., *Ass't Professor*, 17 Boudinot St.
Wyeth, M. S., *So. a* 142 L

Yano, I., *g* 107 H S
Yatsu, Z., *g* 111 H S
YOUNG, C. A., *Professor*, Hanover, N. H.
YOUNG, J. W., *Preceptor*, 15 Madison St.

Zimmer, H. E., Jr., *q* 154 L
Zimmerman, L. S., *Jr. a* 30 P
Zimmerman, S. S., *Fr. s* 19 S W
Zimmermann, A., *So. a* 1 Nassau Inn
Zinsser, R., *So. a* 103 B
Zinsser, W. H., *Jr. a* 54 L

INDEX

	PAGE
Abbreviations	408
Absence from Examination	251
from Princeton	264
Academic Costume	239
Department, Courses of Instruction	121
Faculty	117
Year	262
Admission, see also Terms of,	
to Special Courses	86
to Advanced Standing	86
Allotment of Rooms	311
Alumni Associations	359
Representation	65
Trustees	18
Anatomy, Instruction in	180
Annual Expense, Estimate of	310
Apparatus, Laboratories and	296
Archæology, Instruction in	133
Architecture, Instruction in	133
Art, Instruction in	133
Astronomical Observatories	272
Astronomy, Instruction in	183
Athletics:	
Brokaw Field	304
Golf Links	305
University Field	304
Attendance, Regulation of	263
Bills, University	318
Biology, Department of	179
Instruction in	179
Board of Trustees	17
Meetings of	19
Botany, Instruction in	180
Buildings	270
Calendar	10
Catalogues	9
Certificates of Preparation for Admission	71, 85
of Proficiency	86
Chapel Exercises, Attendance on	264
Charitable Fund	338
Charter of University	48
Chemical Laboratories	299
Chemistry, Department of	172
for Admission	84
Instruction in	172
Choice of Electives	263
Civil Engineering, Department of	108
Terms of Admission	75
Course of Study	108
Courses of Instruction	187

	PAGE
Civil Engineering,	
Junior-Senior Schedules	212, 213
Laboratory	302
Class Exercises, Attendance on	265
Classical Seminary	285
Classics, Department of	136
Instruction in	136
College Fellowships	244
Rooms, see Dormitories.	
Commencement Exercises	265
Speakers	257
Committees of Faculty	40
of Trustees	19
Conditions, Removal of	254
Contents	3
Courses of Instruction:	
Academic	121
Scientific	157
Cytology, Instruction in	181
Degrees	
Bachelor of Arts	91
Bachelor of Letters	91
Bachelor of Science	91
Civil Engineer	108
Doctor of Philosophy	285
Electrical Engineer	199
Master of Arts	235
Degrees Conferred, 1906-1907	341
Departments of the University	115
Directors of Seminaries	277
Directory	409
Dormitories	272
Economic Seminary	285
Economics, Instruction in	127
Electives, Choice of	263
Electrical Engineering, Department of	197
Embryology, Instruction in	180
Endowed Scholarships	329
Engineering, Civil, see Civil Engineering Department.	
Engineering, Electrical, see Electrical Engineering, Department of.	
English, Department of	141
for Admission	79
Instruction in	141
Seminary	285
Entrance Fee	69
Examinations, Dates of	70
Requirements, see Terms of Admission.	
Ethics, Instruction in	123
Examinations for Admission	70

	PAGE
Examinations,	
Absence from	252
Mode of Conducting	251
Preliminary	72
Excuses for Absence from Examination	252
from Exercises	264
Expenses	309
Faculty and Instructors	20
Academic	117
Scientific	155
Fees	309
Fellows	365
Fellowships:	
College	244
University	241
Financial Aid, see Remission of Tuition.	
Form of Bequest	65
French, for Admission	81
Instruction in	149
Freshman Class:	
Academic	386
Scientific	390
Freshman Weekly Schedules	200-203
Freshman Year, Course of Study	92
Funds for Candidates for Ministry	338
General Honors	258
Orders	262
Summary of Officers and Students	406
Geodesy, Instruction in, see under Courses of Instruction, Civil Engineering Department.	
Geology, Department of	176
Instruction in	176
German, for Admission	81
Instruction in	146
Germanic Seminary	285
Grades, see Standing.	
Graduate School	214
Courses of Instruction	215
Students, List of	365
Graduation	256
Fee	309
Honors	256
Graphics, Instruction in	183 191
Greek, for Admission	77
Instruction in	136
Green, John C., School of Science see School of Science.	
Grounds and Buildings	269
Gymnasium	276
Halls, see Literary Societies.	
Hebrew, see Semitic Languages.	
Histology, Instruction in	181
Historical Seminary	285
History and Government of the University	45
History, for Admission	76
Instruction in	125
Holidays, see Calendar.	
Honorary Degrees, 1906-1907	341
Honors Course in Mathematics and Physics	105, 259
Honors Conferred, 1906-1907	347
General and Special	258

	PAGE
Hospital, see Infirmary.	
Infirmary, Isabella McCosh	275
Instruction, Courses of:	
Academic Department	121
School of Science	157
Civil Engineering	187
Electrical Engineering	198
Graduate School	214
Italian, Instruction in	150
John C. Green School of Science see School of Science.	
Junior Class, Academic	378
Scientific	392
Orator Contest	323
Junior Weekly Schedules	208, 209
Junior Year, Course of Study	94
Jurisprudence, Instruction in	126
Laboratories and Apparatus	296
Laboratory Fees	309
Latin, for Admission	78
Instruction in	137
Leave of Absence	264
Lectures, Public	36, 266
Library, University	281
Librarians	281
Literary Societies	288
Lynde Prize Debate	320
Mathematical Seminary	285
Mathematics, for Admission	82
Department of	157
Honors Course in	159
Instruction in	157
Meetings of Board of Trustees	19
Mental Philosophy, Instruction in	121
Mineralogy, Instruction in	177
Modern Languages, Department of	146
Moral Philosophy, Instruction in	125
Museums	290
Nassau Hall	270
Observatory, Halsted	272
of Instruction	272
Office Hours	8
Officers of the University	37
Orator Contest, Junior	323
Pecuniary Aid, see Remission of Tuition.	
Philadelphian Society	288
Philosophy, Department of	121
Instruction in	121
Philosophical Seminary	285
Physical Geography, Instruction in	184
Physics, for Admission	84
Department of	165
Honors Course in	167
Instruction in	165
Political Economy, Instruction in	127
Political Seminary	285
Politics, Instruction in	128
Prayers, see Public Worship.	
Preliminary Examinations	72
Prizes	320
Prizemen, 1906-1907	349
Pro-seminaries	99
Psychology, Instruction in	121